CONSTRUCTION NEWS

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RAILWAYS.

*(*Denotes that this work is advertised in Engineering News.)*

MASSACHUSETTS.—New York, New Haven & Hartford R. R.—Press reports state that this company is planning the electrification of its Tariffville Branch. This line is 18 miles long, and runs from Springfield to Tariffville. Modified trolley cars will probably be used. Edward Gagel, New Haven, Conn., is Ch. Engr.

GEORGIA.—Georgia Midland & Gulf R. R.—A railroad is projected from Athens through Milledgeville to Dublin, and thence to a point yet to be determined on the Gulf of Mexico. J. R. Crandall, Midville, Ga., is interested.

ALABAMA.—Tombigbee Valley R. R.—Press reports state that surveys have been completed for the northern extension of this line from Toxey to York. William Toxey is Ch. Engr.

KENTUCKY.—The Levisa River R. R. Co.—This company has been incorporated with the home office at Ashland, Ky. The road will be constructed in Pike County, and will branch off from the Chesapeake & Ohio R. R. and run up the Levisa River Fork to Grundry, Va.

✚OHIO.—Baltimore & Ohio R. R.—Contracts for double-tracking from Hamler to Holgate, 5.3 miles, and Delaware Bend to Mark Center, have been awarded to LORIMER & GALLENGER CONTRACTING CO., Chicago.

✚INDIANA.—Baltimore & Ohio R. R.—Contracts for the construction of second track on the main line of the Chicago division, from Wellsboro east to La Paz Junction, Ind., 24.8 miles, to Holgate, Ohio, 5.3 miles, and Delaware Bend to Mark Center, Ohio, 5.9 miles, have been awarded to the ROBERT GRACE CONTRACTING CO., Cleveland, Ohio, and R. J. MALONE & CO., Washington, D. C.

WISCONSIN.—Minneapolis, St. Paul & Sault Ste.-Marie Ry.—Press advices state that this company will build 65 miles of road this year from near Foxboro, on the Brooten to Duluth line, to Frederick.

✚KANSAS.—Wichita & Midland Valley R. R.—Press advices are to the effect that this company has awarded a contract to build 55 miles of line from Arkansas City to Wichita to M. TAUXEY, San Salba, Tex.

TEXAS.—Quanah, Seymour, Dublin & Rockport Ry.—Surveys have recently been completed from Jarrell to Georgetown; the survey for the line from Belton to Jarrell was finished some time ago. The line runs from Quanah to the Gulf of Mexico, about 500 miles. L. E. Walker, Georgetown, Tex., is Pres.

San Antonio & Mexico Construction Co.—The citizens of San Antonio have subscribed $500,000 for the construction of a line from San Antonio to Brownsville. This project has been under consideration for years. George West is Chn. of Comm.

COLORADO.—Atchison, Topeka & Santa Fe R. R.—A freight line around Pueblo is under consideration. C. A. Morse, Chicago, Ill., is Ch. Engr.

Denver, Northwestern & Pacific Ry., Moffatt Road.—A bill in the Colorado Legislature, and which provides for a bond issue of $4,000,000 by the State to provide funds for building a 4-mile tunnel from Tolland through the base of James Peak to Arrow, the western portal, at an altitude of 9,000 ft., has passed the Lower House. The bonds are to be secured by collateral deposited by the Denver, Northwestern & Pacific (Moffatt Road). Noted on Dec. 22.

✚WASHINGTON. — Oregon - Washington R. R. & Navigation Co.—Press advices are to the effect that the North Coast R. R. has awarded to the WATSON, FLAGG & STANDIFER CO., Spokane, the contract for building the line between Spokane and Cheney, a distance of 18 miles. Construction of this section of the Harriman property will cost about $1,000,000.

OREGON.—A railroad between Preneville and Metolius, 31 miles, is projected by R. F. Heckman, Metolius, Ore. The construction will be medium, with 1% grades.

CALIFORNIA.—Southern Pacific Co.—A survey is being made for a route in the heart of the Palo Valley. J. H. Maxey, the Yuma contractor, has to furnish his big engineer's wagon and outfit for a party of surveyors to make the survey. The party is headed by R. J. Weir, locating engineer of the Southern Pacific. Supplies for a stay of some time have been provided.

NEW BRUNSWICK.—New Brunswick Coal & Ry.—This company contemplates a 31-mile extension from Minto to Fredericton.

ONTARIO.—The Canadian Northern Ontario R. R. Co.—This company has filed a plan showing route from Bronte to the eastern limit of Wentworth County, paralleling the Grand Trunk Toronto line, to Hamilton; there it will cross to the north of the Grand Trunk right-of-way and parallel it to the end of the county. A. F. Stewart, Toronto, Ont., is Ch. Engr.

ELECTRIC RAILWAYS.

(✚Denotes a contract awarded.)

JOHNSTOWN, N. Y.—Announcement has been made of the formation of the Little Falls & Johnstown R. R. Co. for the building of an electric railway from Johnstown to Little Falls. It is expected the road will be in operation before the end of 1912, thus completing the chain of electric railways from Hudson to Buffalo. The stockholders are the following, the first thirteen of whom are also the directors: Joshua J. Gilbert, Lorenzo O. Bucklin, Frederick G. Teall, Homer P. Snyder, Little Falls; Frederick Engelhardt, St. Johnsville; Edward C. Decker, George C. Potter, A. J. Baker, James P. Argersinger, Johnstown; J. Ledlie Hees, Fonda; L. N. Littauer, Gloversville; John Barnes, Amsterdam; Henry C. Harnickell, New York; Directors: Joseps H. Reaney, St. Johnsville; John G. Ferres, Johnstown; Zenas B. Whitney, Frank Burton, Gloversville; William Harris, Northville.

RICHFIELD SPRINGS, N. Y.—Press reports state that the Oneonta & Mohawk Valley R. R. Co. has received a franchise to connect with the Delaware, Lackawanna & Western R. R. at Richfield Springs. Joseph K. Choate, Oneonta, N. Y., is Gen. Mgr.

BOGOTA (Hackensack post-office), N. J.—The Public Service Ry. Co. is stated to have applied for a franchise to build a railway through Queen Anne Rd. R. E. Danforth, Newark, is Gen. Mgr.

MILLVILLE, N. J.—Surveys are being made for a line between Millville and Ocean City by the Millville, Tuckahoe & Ocean City Electric Transportation Co., it is reported. E. W. Bush is interested.

SELINSGROVE, PA.—A network of trolley lines connecting this place, Sunbury and other nearby towns with central Pennsylvania will be built. A charter will be applied for on April 24. John G. Johnson, of Philadelphia, and J. F. Shaffer, of Sunbury, are acting as solicitors for the merger planned, connecting Sunbury and Selinsgrove by trolley throughout the territory embraced by the counties of Northumberland, Union, Snyder, Montour, Columbia, Lycoming, Luzerne and Schuylkill. A line to Philadelphia, by the way of Pottsville, through Schuylkill County, is included in the plans.

WILKES-BARRE, PA.—The Wilkes-Barre & Luzerne Street Ry. Co. is stated to have increased its cauital to $300,000 for the purpose of building a railway in Wilkes-Barre and Kingston. E. L. Hessler is Pres.

✚ATLANTA, GA.—The Atlanta & Carolina R. R. Co. has awarded the contract for building a line between Atlanta and Augusta, 208 miles, to JOHN T. ADAMS, of the Columbia Savings & Trust Bldg. and L. E. STRUM, of the Wyandotte Bldg., Columbus, Ohio, M. Mason, Pres. and Gen. Mgr. of the new railroad, announces that the right-of-way has been secured all the way from Atlanta to Augusta, and that both cities have granted franchises for the running of the line through the streets. It is estimated that there will be about 3,000,000 cu. yds. of excavation and 2,755,000 cu. yds. of embankment removed. Approximate cost, $3,500,000.

HENDERSON, TENN.—William Lee and J. W. Stewart, of Henderson; N. B. Hardman and L. P. Jones, of Sardis, are planning the construction of a railway from Henderson or Jackson, extending east to a point on the Tennessee River, turning south and terminating at Savannah.

MEMPHIS, TENN.—Several changes are contemplated by the Memphis street railway system which will entirely do away with the Third St. loop and replace it with a series of loops and trackage extensions. It is proposed to extend the Third St. line from Jefferson Ave. to Poplar Ave. The company will have the right to extend this line to Market Ave. at any time within the next two years. Double tracks will be laid on Front St., from West Court to Poplar Ave.; double tracks on Jefferson, from Main to Third; double tracks on Poplar, from Front to Main, and a single track on Adams Ave., from Front to Third. Among the other improvements agreed upon by the commissioners and Mr. Tutwiler are immediate work of construction on the cross-city car line, and a contract to extend a car line to Riverside Park as soon as the Main St. subway is finished. It is further proposed to extend the Peabody line to connect with the East End-Buntyn line, in order to handle traffic easier to the Fair Grounds. When the Nashville, Chattanooga & St. Louis R. R. subway is completed, it is propesed to extend the Central Ave. line out Barksdale St., to connect with the Lamar line, while it is also proposed to extend the Lamar line to the Parkway as soon as the subway of the Southern Ry. is completed. The company consents to double tracking Beale, from Orleans to Myrtle, double track Iowa, from Main to Rayburn, and double track Calhoun, from Rayburn to Third. T. H. Tutwiler is Pres.

DRY RIDGE, KY.—Surveys are being made by the Cincinnati, Louisville, Lexington & Maysville Traction Co., it is reported, for its proposed railway between Owenton and Dry Ridge. W. T. Blackburn is Pres.

MAYSVILLE, KY.—A charter has been applied for by the Maysville Public Service Co. to build a railway here. Capital, $150,000. The incorporators are A. M. J. Cochran, W. H. Cox, H. Ficklin, all of Maysville.

NORTONVILLE, KY.—A charter has been applied for by the Nortonville Traction Co. to build a railway here. The incorporators are Frank E. Mohr, Columbus, Ohio; Frank G. Hoge, Nortonville, Ky.; and T. F. Callard, Hopkinsville, Pa.

CARMEL, IND.—Preliminary arrangements are being made by the Indianapolis & Delphi Traction Co. to build a railway connecting Carmel, Westfield, Sheridan, Frankfort, Forest, Burlington, Flora and Delphi. The officers are Edward Thistle Waite, Sheridan, Pres.; Morris E. Cox, Westfield, Secy.; and Henry E. Smith, Indianapolis, Gen. Mgr.

INDIANAPOLIS, IND.—Officials of the Indianapolis, Nashville & Southern Traction Co. announce that surveys for a line from Greenwood to Nashville has been completed and steps are being taken to let the contract for the construction.

The Indianapolis & Delphi Interurban R. R. Co. is preparing to let a contract for the construction of 75 miles of road, including several bridges. Henry L. Smith and H. W. Mansfield, Board of Trade Bldg., Secy. and Engr., respectively.

PATOKA, IND.—The Evansville & Southern Indiana Traction Co. will probably build the proposed extension from Patoka to Vincennes during the present year. The line will cross the White River at Hazleton or Decker. L. C. Shepherd, Evansville, is Supt.

RICHMOND, IND.—The South Bend, Richmond & Southeastern Traction Co. contemplates building a railway from Union City to Brookville, by way of Richmond, Brownsville and Liberty.

VINCENNES, IND.—The officials of the Vincennes & Loogootee Interurban Traction Co. have let a contract to an Eastern construction company for the construction of a traction road from Vincennes to Loogootee, 23 miles. Work will begin about April 20.

ROCKFORD, ILL.—The Rockford City Traction Co., newly incorporated, will build a railway here. The incorporators are Warren Partridge, P. E. Warren and A. A. Anderson.

ALTOONA, WIS.—The Chippewa Valley Ry., Light & Power Co. has applied, it is reported, for a franchise to build a railway here. George B. Wheeler, Eau Claire, Wis., is Gen. Mgr.

MILWAUKEE, WIS.—W. A. Comstock, Pres. of the Milwaukee-Northern Ry. Co., states that grading will begin next fall for the proposed extension from Sheboygan, Wis., to West Bend, Wis., about 35 miles, to be ready about June 1, 1912. Considerable double-tracking work will be done on the present interurban line from Milwaukee to Sheboygan, the first unit being from Milwaukee city limits to Thiensville, Wis.

FOREST CITY, IOWA.—It is reported that contracts will be awarded by the Forest City, Fertile & Mason City Ry. about May 1. T. R. Lyford, Northwood, Iowa, is Ch. Engr. Noted on March 30.

DULUTH, MINN.—The Virginia, Eveleth & Gilbert Traction Co. has been organized for the purpose of building a railway to connect Virginia, Eveleth and Gilbert. The incorporators are W. M. Prindle, E. B. Merrill and G. T. Eagling.

CHERRYVALE, KAN.—A franchise, it is stated, has been received by the Union Traction Co. to build a railway as far as the eastern limits of the city. D. H. Siggins, Coffeyville, is Pres.

WICHITA, KAN.—Plans for an extension from Wichita to Hutchinson, by way of Burrton and Halstead, are being made by the Wichita R. R. & Light Co. E. C. Clemmons, Wichita, is Ch. Engr.

ZARAH, KAN.—The Kansas City, Lawrence & Topeka R. R. Co. is contemplating the extension of its line from its present terminal in Zarah to Bonner Springs, about six miles. J. A. Stewart, Merriam, Kan., is Supt.

MARSHALL, TEX.—The Marshall Traction Co. will soon begin the construction of a 1¼-mile extension of its street railway line to East End suburb.

TEMPLE, TEX.—A charter has been filed by the Southwestern Traction Co., of Temple, to build an interurban line between Temple and Belton. The incorporators are A. F. Bentley, P. L. Downs, W. S. McGregor, W. G. Haag, W. G. Bentley.

WACO, TEX.—The Business Men's Club of Waco, through its Pres., H. H. Shear and other members, is negotiating with a syndicate of men with a view of constructing an interurban railway between Waco and Cleburn, about 50 miles.

MIAMI, OKLA.—The Oklahoma, Kansas & Missouri Interurban Ry. Co. has completed arrangements, it is stated, for an extension from Miami to Pittsburg, Kan., by way of Joplin, Mo., about 35 miles.

MUSKOGEE, OKLA.—The Muskogee & Ft. Gibson Interurban Ry. Co. has made application to build a railway, about ten miles long, extending from Muskogee to Ft. Gibson. The line will be extended ultimately to Tahlequah, 35 miles southeast, and to Tulsa, 50 miles northwest. A bridge will be necessary across the Arkansas River. Surveys are now being made. The directors are C. N. Haskell and W. N. Patterson.

BOISE, IDAHO.—The City Council has passed an ordinance granting to the Boise Valley Ry. Co. a franchise to construct and maintain a railway on Bannock St., this city.

LOGAN, UTAH.—The Cache County Amusement Co. will begin, about July 1, to build a railway connecting Preston, Idaho, Franklin, Richmond, Lewiston, Smithfield, Hyde Park, Greenville, Logan, Providence, Millville, Hyrum, Wellsville and Paradise, about 50 miles. A power station and repair shops will be located at Logan. J. White, Salt Lake City, is Pres.; W. J. Phillips, Salt Lake City, is Secy.; and Leo Nielson, Logan, is Treas.

CLE ELUM, WASH.—A railway is projected which will connect Cle Elum and Roslyn. Franchises will be applied for by Paul L. Richards, Tacoma, Wash.

SEATTLE, WASH.—The City Council has passed an ordinance granting to W. H. Coughlin a franchise to construct a street railway on certain parts of West Michigan St.

DANVILLE, CAL.—Announcement has been made that the Southern Pacific Co. will make a survey of the route between Danville and Hayward to build an electric line. The route is 15 miles long, and will connect at Hayward with the corporation's lines now being electrified throughout Oakland, Alameda and Berkeley. It will also be operated to connect with lines ready to go into operation between Hayward, San Leandro, Elmhurst, Oakland, and will have direct routing to the ferry systems at the Oakland mole. About $18,000,000 will be spent in all.

LOS ANGELES, CAL.—Reports state that W. McBurney has asked the City Council for a franchise to build a cross-town railway on Vermont Ave., from Fourth St. to Vernon Ave.

The Los Angeles Ry. Co. has asked the City Council for a franchise to construct a double-track line connecting its Sixth St. and Hill St. lines. R. P. Sherman, San Francisco, is Gen. Mgr.

SAN FRANCISCO, CAL.—Press reports state that the Oakland & Antioch Ry. Co. contemplates building a line from Antioch to Stockton. The company has filed articles of incorporation. Capital, $10,000,000.

CALGARY, ALTA.—The Alberta Electric Co. is reported incorporated for the purpose of building a railway connecting Calgary, Banff, Medicine Hat, Long Coutee, Lethbridge, Macleod and Wood Mountain. The company's offices are at Calgary.

LIGHT AND POWER PLANTS.

*(*Denotes that this work is advertised in Engineering News.)*

✚SALEM, MASS.—The City Council has awarded the contract for street lighting to the SALEM LIGHTING CO., for a period of five years. The company is to supply 2-magnetite arc lamps, 225 6.6-ampere arc lights and 700 tungsten lamps of 60 c. p., at $36,750 a year.

✚ALBANY, N. Y.—The contract for doing about $5,000 worth of emergency rewiring work in the State Capitol has been awarded to the TUCKER CONSTRUCTION CO., New York, N. Y. The State Architect, F. B. Ware, has nearly completed plans nad specifications for standpipes and a system of fire protection for installation in the Capitol, to be presented to the Trustees of Public Buildings when completed for approval. The State Architect is also preparing plans and specifications for the entire rewiring system. It is expected that both pieces of work will be advertised in the near future.

CENTRAL ISLIP, N. Y.—The bids received by the State Commission in Lunacy, Albany, N. Y., on April 5, for extension to laundry, including heating, plumbing and electric work, at the Central Islip State Hospital, Central Islip, N. Y., were: L. G. Wadsworth Construction Co., 1 Madison Ave., New York, $6,968; W. M. Henderson, 507 Fifth Ave., New York, $7,000; William H. Wright & Son, 148th St. and Third Ave., New York, $8,994; N. R. Valkenburgh, Saugerties, N. Y., $9,055; Merrick Fireproofing Co., 1 Broadway, New York, $9,970; Concord Construction Co., 38 Park Row, New York, $10,417; R. T. Ford Co., Rochester, N. Y., $10,857. F. B. Ware is the State Arch.

NEW YORK, N. Y.—Bids will be received by R. Waldo, Fire Comr., 157 East 67th St., New York, N. Y., until 10:30 a. m., April 18, for furnishing labor and materials required for the installation of new fuse board, jack test board and cable rack, in the Fire Alarm Telegraph Bureau. Blank forms and further information and plans may be had at the office of Mr. Waldo.

Bids will be received by the Department of Public Charities at foot of East 26th St., until 2:30 p. m., April 24, for the installation of electric wiring and appurtenances for light and power for the Metropolitan Hospital and surrounding buildings, Blackwell's Island, the City of New York. Michael J. Drummond is Comr. Plans may be seen at the office of Frank Sutton, Consulting Engr., 80 Broadway.

YONKERS, N. Y.—John H. Claxton, Secy. of the Bd. of Education, will receive bids until April 21 for wiring the Saunders Trades School now being built on South Broadway.

HUNTINGTON, PA.—The Penn Ceatral Light & Power Co., of Huntington, will build a new gas plant to improve that branch of its service here. Estimated cost, $45,000.

✚SCRANTON, PA.—The Scranton Electric Co. has awarded to the GAYNOR CONTRACTING CO., Scranton, the contract for digging the trenches on Washington Ave., in which a 24-in. steam main will be layed; also for filling trenches after main is laid. The AMERICAN DISTRICT STEAM CO., Lockport, N. Y., received the contract for furnishing and laying the mains. Plans for the extensive improvements to be made at the company's plant on North Washington Ave. have been completed and contractors have been invited to submit bids. It is expected that the improvement work will be started about the middle of May.

CLARENDON, VA.—The Arlington Electric Co is incorporated with a capital of $200,000. M. E. Church, Falls Church, Va., is Pres.; L. L. Northrup, Clarendon, is Secy., and E. Wiley Stearns, Clarendon, is Treas.

NEWPORT NEWS, VA.—The city will vote on issuance of $150,000 of bonds for the construction of a municipal electric-light plant.

*RICHMOND, VA.—Bids will be received at the office of the Supervising Architect, Washington, D. C., until 3 p. m., May 10, for the installation of a steam heating and ventilating apparatus, etc., for the reconstruction of the U. S. post-office, court house and custom house at Richmond, Va. Plans and specifications may be had at the above office, or at the office of the Supt. of Construction at Richmond, Va. James Knox Taylor is Superv. Arch.

CHARLOTTE, N. C.—The Virginia Power Co. has been incorporated at Salisbury. Dr. J. J. Mott, of Statesville, N. C., is reported to be the prime mover. Although the sites of the power plants lie in Virginia, the organization was perfected under a North Carolina charter. For some time Dr. Mott has been purchasing water-power sites on Virginia rivers, deeds for which he has turned over to the new company. Most of the sites are on New River. About 100,000 HP. will be developed ultimately.

AVONDALE, OHIO.—Bids will be received until 12 m., May 6, for furnishing the material, machinery and construction of an electric power plant and lighting fixtures for the Muskingum County Children's Home at Avondale, to consist in general of motor generator set and switchboard, including voltage regulator, storage battery and lighting fixtures, erected complete. Plans and specifications may be seen at the office of H. A. Buerhaus, Auditor, Muskingum County.

COLUMBUS, OHIO.—Bids will be received at the office of James Knox Taylor, Superv. Arch., Treasury Department, Washington, D. C., until April 17, for furnishing two electric elevators in the extension to the U. S. Post Office and Court House at Columbus, Ohio. Plans and specifications may be obtained at the office of James Knox Taylor.

The City Council is considering an ordinance providing for the issue of $255,000 bonds to the municipal lighting plant in shape to sell current for commercial purposes.

✚RICHMOND, IND.—The contract for engine and other machinery and equipment for the municipal electric light plant has been awarded to the HOREN, OWENS, RENTSCHLER CO., Hamilton, Ohio, at $8,250. Noted April 6.

SHOALS, IND.—Bids will be asked for about July 1 for the construction of a power plant. F. W. Bateman is City Engr., Wm. Dustin is City Clk., and Ollie Jones is Mayor.

JACKSON, MICH.—The Michigan United Rys. Co. is considering a plan to build a power plant and substation here. The plant will have 6,000 KW. capacity. M. S. Ralls, Jackson, is Ch. Engr.

MARQUETTE, MICH.—The Cleveland Cliffs Iron Co. has decided to erect its power dam on the Carp River, between Negaunee and Marquette. A power station will be built which will develop 7,000 HP.

✚CHICAGO, ILL.—The contract for 2,270,000 arc light carbons has been awarded to the NATIONAL CARBON CO., Cleveland, Ohio. Contract price, $31,665. Noted March 23.

ROCKFORD, ILL.—It is reported that the Rockford & Interurban Ry. Co., contemplates the building of a power plant here. Edwin Main, city, is Ch. Engr.

NEW RICHMOND, WIS.—The power plant of the St. Croix Power Co., subsidiary of the St. Paul Gas & Electric Co., St. Paul, Minn., at Apple River Falls, twelve miles west of New Richmond, was nearly totally destroyed by an explosion April 4. The power dam was not damaged. Loss, $500,000. Officials of the St. Paul Gas & Electric Co. are authority for the statement that the plant will be rebuilt immediately, and on a larger scale, to develop about 5,000 HP. The capacity of the old plant was 3,000 HP. Entirely new equipment will be required.

CLINTON, IOWA.—The City Council has resolved to install a boulevard lighting system in certain streets here.

MOUNT PLEASANT, IOWA.—The Iowa Power Co. is about to construct a hydro-electric plant on the Skunk River. Bids will be received about May 1. Estimated cost, $350,000. W. H. Rosecrans Engineering Co., Stock Exchange Bldg., Chicago, are Consult. Engrs.

AURORA, MINN.—The City Council is considering the installation of one 500-gallon underwriters' pump. Estimates on a central heating system are being received.

FRANKLIN, NEB.—Bids will be asked for about May 1, for the construction of an electric light plant. Approximate cost, $8,000.

SCOTTS BLUFF, NEB.—F. H. Robert and A. B. Cross will build a concrete electric lighting and power plant, 58 × 76 ft. Approximate cost, $25,000. F. H. Robert, Scotts Bluff, is Engr.

JEFFERSON CITY, MO.—Bids will be received until April 25 by James Knox Taylor, Supervising Arch., Washington, D. C., for a conduit and wiring and gas piping systems at the U. S. post-office and court house, Jefferson City.

MOBERLY, MO.—Bids will be received by H. A. Hatfield, Pres. of the Bd. Pub. Wks., Moberly, Mo., until April 20, for furnishing and installing material and equipment for improvements and extensions to the waterworks and electric light systems as follows: Two 4-valve, high-speed, automatic engines; two 75KW., 2,300-volt, alternating-current generators for direct connection to engines, complete with exciters; one 2,000,000-gallon crank and flywheel pumping engine; three horizontal, high-pressure return tubular boilers, with a rating of 125 HP. each; one 400-HP. feed water heater and boiler feed pump heads for two wells already sunk; one switchboard; one brick smokestack, 85 ft. high; construction of power-house and erection of street lighting system, etc. Plans and specifications may be seen at the office of the Bd. Pub. Wks., or at the office of Rollins & Westover, Consult. Engrs., Beals Bldg., Kansas City, Mo.

✚EL PASO, TEX.—The contract has been awarded to STONE & WEBSTER ENGINEERING CO., Boston, Mass., for erecting a steel and concrete addition to the power plant of the El Paso Electric R. R. Co. A new generating and power plant will be installed in the new part, doubling its capacity. Cost, $250,000.

LLANO, TEX.—The municipal lighting system here will be extended. Improvements will be made to the plant.

TEMPLE, TEX.—I. A. Walker, of Dallas, has made application to the City Council for the installation of a gas plant and distributing system. Another application for a similar franchise is pending before the Council.

UVALDE, TEX.—The Uvalde Electric Light Co. will install a gasoline engine and will furnish a day power current for its patrons.

WICHITA FALLS, TEX.—M. A. Marcus and T. E. Dobson, of this place, have been granted a franchise by the City Council to install an electric light plant. A company will be organized.

ROSWELL, N. MEX.—Bids will be received by the Clk. of the Bd. of Education until April 18, for installing heating system in the Central School.

✚SALMON, IDAHO.—The contract for wiring and fixtures for the new school building and for the new Murphey & Hamer Hospital has been awarded to FRANK PATTERSON.

CARSON CITY, NEV.—Bids will be received at the office of the United States Reclamation Service, 605 Federal Bldg., Los Angeles, Cal., until April 17, for furnishing a 72-in. penstock for the Truckee-Carson project. Further information may be obtained at the above office. F. H. Newell is Director.

GARDNERVILLE, NEV.—Arrangements are about completed with the Truckee River General Electric Co. for the extension of the power lines as far as the Virginia Ranch, a distance of 2½ miles.

SPOKANE, WASH.—The Spokane Gas Co. is contemplating increasing the capacity of its gas plant. The improvements will cost about $100,000.

TACOMA, WASH.—The Tacoma Gas Co. will build a power plant. Two gas tanks, with a capacity of 500,000 cu. ft., will be erected. Approximate cost, $250,000.

CORVALLIS, ORE.—The City Council has received an application for a franchise granting the Albany Interurban Ry. Co. the use of certain streets in the city over which power transmission lines will be constructed.

BROWNSVILLE, ORE.—The Oregon Power Co. has purchased the electric light and power plant owned by the Brownsville Electric Light Co. The entire system will be rebuilt.

PORTLAND, ORE.—The franchise and plant of the Newport Power Co. has been sold to Henry Hewitt, J. J. Hewitt and Seymour H. Bell, who are Tacoma and Portland capitalists, and will be known under the name of the Yawuina Electric Co. The new owners will spend about $30,000 on reconstruction and re-equipment of the plant.

✚PROSPECT, ORE.—Bids have been received by the Rogue River Electric Co., and has awarded the PROSPECT CONSTRUCTION CO., 218 West Main St., Midford, Ore., the contract, which will sublet the following: 50 miles of pole line, 40-ft. poles, 30 to the mile; building 5,000 ft. of 5 × 9-ft. wood flume and hauling 750 tons of supplies.

COACHELLA, CAL.—See item under Manufacturing Plants.

FRESNO, CAL.—The Pacific Gas & Electric Co. will lay seven and a half miles of 6, 8 and 10-in. gas mains to cost $40,000. A. W. Florence is District Mgr.

The San Joaquin Light & Power Co. announces the extension of its west line to Bakersfield, about 195 miles, which will carry 60,000 volts.

✚LOS ANGELES, CAL.—The Bd. of Supervisors of Los Angeles County awarded a franchise on March 27 to the EAGLE ROCK WATER CO., on their bid of $100, for stringing poles and wires for a street illuminating system and commercial lighting system.

The following bids were opened by the Bd. of Supervisors of Los Angeles County on March 27 for electric fixtures for the new Hall of Records: Thomas Day & Co., 725 Mission St., San Francisco, $13,627; Fowe-Pettebone Co., Los Angeles, $25,916 and $31,150; Western Electric Co., Los Angeles, $29,877; W. G. Hutchison Co., Los Angeles, $29,975; Meyberg Bros. Co., Los Angeles, $30,000 and $40,000.

✚SYDNEY, N. S.—The Cape Breton Electric Co., Ltd., will enlarge its power house in Sydney. The ALLIS-CHALMERS CO., Milwaukee, Wis., was awarded the contract for one 500-KW. turbo-generator, 2,300-volt A. C. H. C. Foss is Gen. Mgr., and W. G. Ross, Sydney, is Gen. Supt.

✚CALGARY, ALTA.—The contract for generating equipment for which bids were received March 22 by W. D. Spence, City Clk., has been awarded to the ALLIS-CHALMERS CO., Milwaukee, Wis. Contract price, $41,-965. Noted March 2.

ORANGEVILLE, ONT.—Bids will be received at the office of R. C. Desrochers, Secy., Department of Pub. Wks., Ottawa, until 4 p. m., April 18, for the electric light fixtures, wiring, etc., for the Post Office, Orangeville. Plans and specifications to be obtained from D. McPherson, the caretaker of the building, or to Thomas Hastings, Clk., Postal Station "F," Yonge St., Toronto, or at the Department of Pub. Wks., Ottawa.

WINNIPEG, MAN.—Bids will be received by M. Peterson, Secy. Bd. of Civil Control, until May 1, for furnishing a number of ornamental lamp standards. For further information address F. E. Cambridge, City Electrician.

NEW WESTMINSTER, B. C.—The City Council is considering the building of a municipal gas plant.

BRIDGES.

(✚ Denotes a contract awarded.)

SAYBROOK, CONN.—Bids will be received by the Selectmen, H. G. Jones, Chn., until noon, April 20, for the construction of two reinforced-concrete bridges in the Village of Deep River, Conn., each bridge to have a span of 25 ft. between the abutments. Plans and specifications may be seen at the Selectmen's office, Deep River.

WATERBURY, CONN.—This city is contemplating the construction of a new bridge over the Naugatuck River at Bank St., and the improvement of the alignment of the street at that point. The bridge will probably be of stone or reinforced concrete. Robert A. Cairns, 9 Leavenworth St., Waterbury, is City Engr.

FULTON, N. Y.—Plans have been prepared and approved for the construction of a concrete and steel bridge over the barge canal at West Broadway, to cost $170,000. George W. Hackett is City Engr.

NEW YORK, N.Y.—We are officially advised that bids for furnishing all the labor and materials required for completely erecting and constructing a reinforced concrete bridge from Hunter Island to Twin Island in Pelham Bay Park in the City of New York, were received on April 6, as follows: S. Amanna, 3188 Villa Ave., New York, $5,950 and $5,900; Loudins & Galls, 159 East 306th St. New York, $6,800 and $6,700; Hasourg Construction Co., 136 Liberty St., New York, $8,377 and $8,187; John F. O'Heir, 3052 Perry Ave., New York, $5,573 and $4,833; Snare & Triest Co., 143 Liberty St., New York, $8,280 and $8,000; Wm. Werner, 657 Vanderbilt St., Brooklyn, N. Y., $7,986 and $7,780. The higher prices are for bridge with guard rails to be of galvanized iron pipe.

NIAGARA FALLS, N. Y.—Bonds for $45,000 have been sold for constructing the approaches of the bridge to be erected at North Eleventh St. by the New York Central R. R. Address the Grades Crossing Commission.

EAGLE ROCK (Orange post-office), N. J.—See item under Miscellaneous Contracts.—Steel Flag Mast, Eagle Rock, N. J.

JERSEY CITY, N. J.—Bids have been received by the Hudson Boulevard Commissioners for the construction of two bridges as follows: Bridge over the Central R. R. of New Jersey, in Bayonne, N. J.: Joseph Murphy & Son, $80,999; Carrington Construction Co., $70,700; Stillman, Delehanty & Ferris Co., $86,300.

Bridge over Pennsylvania R. R., near Pavonia Ave., Jersey City: Vulcan Rail & Construction Co., of Brooklyn, N. Y., $6,642; Snare & Triest Co., $7,654; Oltmer Selbach Co., $8,115.

✚OCEAN CITY, N. J.—A contract for constructing a steel drawbridge at Holly Beach has been awarded to HARVEY BENNET, at about $20,000.

*RUTHERFORD, N. J.—Bids will be received by the Board of Chosen Freeholders of Bergen County, until 2.30 p. m., April 28, for constructing a steel and concrete bridge across the Passaic River at the foot of Rutherford Ave. John H. Burke is Chn. Bd.

BRADFORD, PA.—Bids will be received by E. C. Charlton, City Clk., until 5 p. m., May 1, for the following: Construction of bridge over creek at Main St.; construction of bridge over creek at Mill St.; construction of abutments for Main St. bridge; construction of abutments for Mill St. bridge; repavement of Webster St. with vitrified brick; construction of wood, brick, stone and cement sidewalks.

NORTHAMPTON, PA.—Bids will be received until 1 p. m., April 17, for constructing a reinforced-concrete bridge over the Lehigh River at the foot of Third St. It is to be a three-span structure, two of the spans to be 92 ft. each in length, and the other 100 ft. long.

PITTSBURG, PA.—We are officially advised that the lowest bid received on April 7 for constructing a reinforced-concrete arch bridge over Washington Boulevard was submitted by Booth & Flinn, Ltd., at $140,948. There were seven other bidders. The contract will be awarded on April 13. Joseph G. Armstrong is Dir. Pub. Wks. Noted on March 30.

✚READING, PA.—Contracts have been awarded by the County Controller and County Commissioners for the erection of three new concrete bridges as follows: Bordner's bridge No. 2, across the Swatara Creek, to the NELSON-MEREDYTH CO., Chambersburg, Pa., at $6,560. Bordner's bridge No. 1, over the Tulpehocken Creek, to WILLAUER & CO., of Pottstown, Pa., at $7,390. Mohnton bridge, over the [illegible] to CARL R. CAMP, of [illegible] $5,461.

DENTON, MD.—The [illegible] chester County Commissi[illegible] for the construction of a [illegible] chester River, near Pres[illegible] the Caroline County Comm[illegible] ton.

DENTON, MD.—See item [illegible] Roads.

✚WASHINGTON, D. C. [illegible] been awarded to the PEN[illegible] Beaver Falls, Pa., for [illegible] bridge spanning Rock Creek [illegible] St. The work will cost abo[illegible]

✚COURTLAND, VA.—The [illegible] Commission, Richmond, V[illegible] contracts to the VIRGINIA [illegible] CO., Roanoke, Va., for [illegible] bridges in Southampton C[illegible] cost of $21,000.

✚DANVILLE, VA.—The [illegible] a contract to THOMAS SH[illegible] N. C., at $38,810, for cons[illegible] across Dan River at Union S[illegible] will be of reinforced concrete [illegible] with a 20-ft. roadway. Wi[illegible] Cleveland, Ohio, is Consult. E[illegible] Magruder, City Engr.

✚HOUSTON, VA.—It is re[illegible] Halifax County Board of Su[illegible] awarded a contract to G. [illegible] Houston, for constructing a 24[illegible] inforced-concret bridge across [illegible] Creek.

RICHMOND, VA.—The sub[illegible] Council Committee on Street[illegible] mended the adoption of design[illegible] by I. J. Smith & Co., of Rich[illegible] by Concrete Steel Engineering [illegible] York), for the reinforced-concre[illegible] over James River to replace M[illegible] The plans provide for the Me[illegible] concrete reinforcement; to carry [illegible] tric cars and 150 pounds per sq[illegible] way; total length, 1,721 ft.; wi[illegible] way, 44 ft., with sidewalks on [illegible] concrete railing of 8 ft.; approac[illegible] Mayo's Island on each side, trolley pole[illegible] pier, street railway tracks, 16-in. [illegible] 12-in. water main and ducts for high and low power wires; two alternate designs submitted for lamps for lighting bridge; electricity from underground conductors. The estimated cost is $224,000. William J. Watson, Cleveland, Ohio; Charles E. Bolling, City Engr., and C. P. E. Burroughs, Richmond, comprise the Board of Engineers for selection of plans.

UFFINGTON, W. VA.—The Commissioners of Monongalia County have decided to erect a bridge at Uffington on the site of the present structure, to cost from $7,000 to $8,000.

BARBOURVILLE, KY.—The Knox County Fiscal Court has ordered the construction of six modern steel bridges in different sections of the county. The court is also considering the spanning of Cumberland River in the Tye Bend section by a modern steel bridge.

COLUMBIA, KY.—The Fiscal Court of Adair County have voted to build an iron bridge across Green River at Neatsville to cost about $5,000.

*WEST POINT, KY.—Bids will be received by C. F. Taylor and W. C. Montgomery, Comrs., until noon, April 20, at 502 Louisville Trust Bldg., Louisville, for the construction of a bridge at West Point, between Jefferson and Hardin Counties. Profile is on file at the office of the Commissioners.

CLEVELAND, OHIO.—Bids will be received by the Board of Commissioners of Cuyahoga County until 11 a. m., April 20 for the elimination of the grade crossings of the Pennsylvania R. R. and the Wheeling & Lake Erie R. R. at Dunham Road in Bedford Township, and for the construction of a bridge across the railroad tracks on Dunham Road between Granger Road and Bedford Road, in accordance with the forms of contract, plans, descriptions, bills of material, specifications of work and estimates on file in the office of the County Engineer at the New Court House, West Third St., and at the office of the County Auditor in the old court house, in Cleveland, Ohio. John F. Goldenbogen is Clk. of Bd.

NAPOLEON, OHIO.—Bids will be received by the Board of Commissioners of Henry County until 1 p. m., April 25, for furnishing material and labor for repairing the Perry St. Maumee River bridge at Napoleon, Ohio, and the Florida Maumee River bridge at Florida, Ohio. C. C. Mukison is County Audr.

FOWLER, IND.—The Commissioners of Benton County are asking for bids for the construction of three cement and I-beam bridges. Lemuel Shipman is County Audr.

INDIANAPOLIS, IND.—See item under Electric Railways.

✚ROCKPORT, IND.—Contracts for the construction of 25 bridges in Spencer County have been awarded to the following contractors: VINCENNES BRIDGE CO., Vincennes, Ind.; A. L. GREENBURG IRON CO., Greenburg, Ind., and HAYNES & KINMAN, Evansville, Ind.

CHICAGO, ILL.—Bonds for $4,655,000 have been voted for building new bridges. B. J. Mullaney is Comr. Pub. Wks.

PEORIA, ILL.—George F. Simmons, Comr. Pub. Wks., has submitted estimates for the construction of a viaduct across the railroad tracks at Adams St. The plans call for a bridge of structural steel and concrete, about 1,300 ft. long and about 25 ft. high. The roadway will be 24 ft. wide and provides for the passage of street cars over it. The cost is estimated at $70,000. R. J. Canterbury is City Engr.

✚REPUBLIC, MICH.—We are officially advised that the contract for constructing a 2-arch reinforced-concrete bridge, 150 ft. long, has been awarded to the ILLINOIS BRIDGE CO., at $4,937. V. S. Hillyer is County Engr. Noted on March 16.

EDWARDSVILLE, ILL.—Bids will be received at the First National Bank Building, Edwardsville, until 10 a. m., April 22, for

the construction of four reinforced-concrete culverts in Port Russell Township, Madison County. Henry Heepke is Town Clk.

PORT BYRON, ILL.—Bids will be received until 1 p. m., April 26, for at Port Byron of a reinforced-concrete the construction Township, Rock Island County. bridge in said Stephen White is Town Clk.

MINNEAPOLIS, MINN.—Bids will be received at the office of A. P. Erickson, County Audr., until 11 a. m., April 17, for rebuilding the approach to bridge No. 8, known as the Cedar Ave. bridge.

RED WING, MINN.—Bids will be received by the Board of Commissioners of Goodhue County until 10.30 a. m., April 19, for the construction of three steel bridges, one 90-ft. steel viaduct span, with concrete abutments, one 58-ft. steel I-beam, and one 20-ft. steel I-beam with concrete abutments, in accordance with specifications prepared by J. M. S. Jones, County Engr., and now on file in the office of the County Auditor at Red Wing, Minn.

KANSAS CITY, MO.—Plans have been prepared by O. K. Williamson, Surv. of Wyandotte County, for the improvement of the Fifth St. bridge across the Kaw River, to cost $——.

GALVESTON, TEX.—Bids will be received by John M. Murch, County Audr., until 11 a. m., April 17, for constructing a concrete bridge over Ave. S, in accordance with plans and specifications on file in County Auditor's office, from whom copies can be had on application.

LAMPASAS, TEX.—The County Commissioners will receive bids until April 20 for the construction of a steel bridge across the Lampasas River, to cost about $7,000. Bonds for the purpose were recently voted.

MUSKOGEE, OKLA.—Bids will be received by the Board of Commissioners of Muskogee County, until 6 p. m., May 1, for constructing 36 stel and concrete bridges, varying in length from 29 ft. to 1,758 ft. Plans and specifications are on file with S. C. Pitts, County Engr. W. E. Looper is County Clk.

✚RAINIER, ORE.—We are officially advised that the contract for constructing a reinforced-concrete bridge over Nice Creek, at Rainier, was awarded on April 5 to EARL B. NEWCOMB, Portland, Ore., at $7,965. Noted on March 30.

✚VENTURA, CAL.—We are officially advised that bids have been received and contracts awarded for the construction of the Saticoy and Piru bridges, as follows: MERVY, ELWELL & CO., Oakland, Cal., $53,800 (awarded contract for the Saticoy bridge); Thomson Bridge Co., San Francisco, Cal., $61,813, $26,237; Hyde, Harjes & Co., San Francisco, Cal., $53,970, $21,360; Cotton Bros. & Co., Oakland, Cal., $59,973, $25,473; MISSOURI VALLEY BRIDGE & IRON CO., Denver, Colo., $56,566, $19,210 (awarded contract for the Piru bridge); Clinton Bridge Works, San Francisco, Cal., $64,990; Charles W. Codbaley, Los Angeles, Cal., $59,800, $22,760; J. O. Mercereau, Los Angeles, Cal., $55,560, $20,760; San Francisco Bridge Co. San Francisco, Cal., $63,500, $24,000. Noted on March 16.

FERGUS, ONT.—Bids will be received by Jas. Beattie, Clk. of Wellington County, until 2 p. m., April 19, for the construction of an 80-ft. concrete arch bridge, 26 ft. wide, with ornamental railing, at Fergus. Plans and specifications may be seen at the offices of Bowman & Connor, Engrs., 36 Toronto St., Toronto, Ont.

✚NIAGARA FALLS, ONT.—We are officially advised that contracts have been awarded as follows: For constructing five bridges, to RUTHERFORD & PATTEN, St. Catharines, Ont.; for constructing one mile of road, to the POWER CITY STONE CO. Noted on March 16.

✚*QUEBEC, QUE.—The Dominion Government at Ottawa, Ont., has awarded to the ST. LAWRENCE BRIDGE CO., a combination of the Dominion Bridge Co., of Montreal, Que., and the Canadian Bridge Co., of Walkerville, Ont., the contract for the superstructure of the Quebec Bridge across the St. Lawrence River. The estimated cost is $8,650,000.

BUILDINGS.

*(*Denotes that this work is advertised in Engineering News.)*

PORTLAND, ME.—See item under Miscellaneous Contracts: Telephone Exchange, Portland Me.

ROCKLAND, ME.—A theater is proposed here, to be known as the New Empire. Fred M. Engley is Gen. Mgr. of the New Empire Co.

BOSTON, MASS.—A combined theater and mercantile building is planned at the junction of Providence St. and Columbus Ave., to be six stories high; the theater to seat 2,000. This is in conjunction with a scheme of wide thoroughfares and opening of the old Providence R. R. terminal yard. Aspinwall & Lincoln, Phillip Bldg., are the Engrs.

MELROSE, MASS.—A municipal building is proposed here, to cost $70,000, to contain a large hall and the various city offices. E. H. Moore is Mayor of city.

SALEM, MASS.—A new high school is proposed, and a commission to build it has been appointed. Charles H. Grover is one of the Comrs.

WORCESTER, MASS.—The construction of an addition to the English High School is considered here by the School Committee. The estimated cost is $175,000.

HARTFORD, CONN.—George Zunner, Archt., has prepared plans for John A. Pilgard for a 7-story brick building at 1026 Main St. The building will be 76½ × 77 ft.

ALBANY, N. Y.—Bids will soon be asked by the Board of Contract and Supply for the construction of a new high school. The Board has decided to advertise for bids for the job both as a general contract, and for separate bids for the various branches of the work. Starrett & Van Vleck are official Archs.

BUFFALO, N. Y.—Loran L. Lewis, 25 Erie County Bank Bldg., will build a 3-story apartment building, 80 × 120 ft., brick and structural iron, at Bird and Claremont Aves., to cost $45,000.

FISHKILL LANDING, N. Y.—New York Central R. R. has announced plans to build a $50,000 station here.

GLEN COVE (L. I.), N. Y.—The Bd. of Education will receive bids until April 14 for the construction of a 2-story, 70 × 160 ft., school here. Mason R. Strong, 7 Wall St., New York, is Arch. The estimated cost is $70,000.

MALONE, N. Y.—The Northern New York Institute for Deaf Mutes, a state institution, which was recently destroyed by fire, entailing a loss of over $100,000, will be rebuilt as soon as possible. Edward C. Rider is Supt.

MEDINA, N. Y.—School improvement amounting to $125,000, will probably be made here.

NEW YORK, N. Y.—A 12-story loft building will be erected at Fourth Ave. and 29th St. Rouse & Goldstone, 30 West 32d St., are the Archs. The estimated cost is $650,000.

NEW YORK, N. Y.—The 248 Fourth Ave. Co., 149 Broadway, will erect a 12-story brick, limestone and terra cotta loft building. The estimated cost is $650,000. Rouse & Goldstein, 38 West 32d St., are the Archs.

The State Realty & Mortgage Co. loaned $148,000 to the East 30th St. Construction Co. to build lofts on the north side of 29th St., 406.7 ft. east of Seventh Ave. The plot is 74.1 × 98.9.

The Altwal Construction Co., 468 Concord Ave., will erect a 5-story brick tenement building at 147th St. and Wales Ave. The estimated cost is $48,000.

The C. K. Realty Co., 2061 Ryer Ave., will erect a 5-story brick tenement at 179th St. and Marmion Ave. The estimated cost is $61,000. Franz Wolfgang, 535 East 177th St., is Arch.

SYRACUSE, N. Y.—The First Baptist Church Society will erect from plans of Gordon A. Wright, a 6-story and basement building, 72 × 200 ft., at Jefferson and Montgomery Sts., adjoining the Y. M. C. A. building. The first three stories to be used as a church with auditorium and galleries, and the upper three stories for dormitories. Estimated cost, $250,000. Levy S. Chapman is Chn. Bldg. Com., O. C. S. Bank Bldg.

WHITE PLAINS, N. Y.—The Board of Education is considering the erection of a $45,000 school in the vicinity of South Lexington Ave. and Post Rd.

YONKERS, N. Y.—Robert Ferguson, 45 Victor St., has filed plans with the Building Department for a brick store and apartment building, five stories high, on one side and four on the other, 45 × 100 ft., at the northwest corner of Elm and Linden Sts.

NEWARK, N. J.—An 11-story hotel will be erected here by E. M. Waldron, 84 South Sixth St. The site has already been secured.

BRADDOCK, PA.—Plans have been completed by W. J. Shaw, Century Blk., Pittsburg, for the construction of a school for North Braddock. The estimated cost is $75,000.

CHESTER, PA.—It is reported that the Pennsylvania R. R. Co. proposes to erect a large and ornate station at Eddystone, one mile north of this city, and that a substation will be erected near the entrance to the Baldwin Locomotive Works.

CONNELLSVILLE, PA.—Bids were received as follows on April 10 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a U. S. post-office at Connellsville, Pa.: Merrick Fire Proofing Co., New York, $96,400; King Lumber Co., Charlottesville, Va., $108,700; Roberts, Nash & Co., Flushing, N. Y., $99,600; South Bend Bldg. Co., Uniontown, Pa., $115,000; W. H. Fissell & Co., New York, $96,592; R. E. Heningham & Co., New York, $110,000; Conners Bros. Co., Lowell, Mass., $120,889.

PHILADELPHIA, PA.—E. Allen Wilson is preparing plans for 21 2-family houses, 20 × 65 ft., to be built at 56th and Walnut Sts., at a cost of about $100,000.

A theatre will probably be erected here by the Empire Circuit. The estimated cost is $250,000.

Bids were received as follows on April 10 by the Quartermaster of the Marine Corps, Washington, D. C., for the construction of four buildings for officers' quarters at the Marine Barracks, Philadelphia, Pa.: Edward C. Fay & Son, 1521 Ranstead St., Philadelphia, $69,517; Gilpin & Guernsey, North American Bldg., Philadelphia, $82,502.

SALTSBURG, PA.—Bids will be received until April 24 by the School Board for moving the present school building and erecting an addition. J. H. Phillips, 201 O'Donovan Bldg., McKees Rocks, Pa.

BALTIMORE, MD.—Plans are being prepared by the Herbert C. Aikens Co., 213 North Calvert St., for the construction of a market. The estimated cost is $100,000.

FREDERICK, MD.—The Baltimore & Ohio Ry. will probably erect a freight depot here. The estimated cost is $60,000.

WASHINGTON, D. C.—Bids will be received by Wm. Tindall, Secy. Comrs. D. C., about May 1, for the construction of a teachers' training school. S. Ashford is Municipal Arch. The estimated cost is $250,000.

BIG STONE GAP, VA.—Plans have been completed by George H. Gray, Louisville, Ky., for the construction of a residence here for Mrs. Fritzi Fox. The estimated cost is $50,000.

NORFOLK, VA.—Bids will be received until April 15 by Reed & Stene, 5 East 42d St., New York, N. Y., for the construction of a passenger station at Norfolk for the Norfolk Terminal Ry. Co.

Bids were received as follows on April 10 by the Quartermaster of the Marine Corps, Washington, D. C., for the construction of two buildings as officers' quarters at the Marine Barracks, Norfolk, Va.: D. J. Phipps, Newport News, Va., $39,546; R. H. Richardson & Co., Hampton, Va., $33,864; J. H. Brinson, Hampton, Va., $37,670; Simons-Mayrant Co., Charleston, S. C., $44,873; Barbour & Co., address not given in bid, probably Norfolk, Va., $27,144; J. D. Anders, Norfolk, Va., $38,919; E. W. & S. F. Secy, Norfolk, Va., $37,141.

RICHMOND, VA.—Bids will be received until May 10 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the reconstruction of the U. S. post-office, court-house and custom-house at Richmond, Va. Drawings and specifications may be had at the office of the Superintendent of Construction at Richmond, Va., at the discretion of the Superv. Arch.

Plans are being prepared by Clinton & Russell, New York, N. Y., for the erection of a 16-story office building for the First National Bank of Richmond, on Main St. The estimated cost is $60,000.

CHARLESTOWN, W. VA.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., will receive bids until May 10 for extension and remodelling of the U. S. post-office and court-house at Charlestown.

MOOREFIELD, W. VA.—Bids will be received until April 20 by the Board of County Comrs. for the construction of a court-house. Milburn, Heister & Co., Washington, D. C., are Archs.

FOREST HILL, LA.—Bids will be received by D. B. Showalter until April 17 for the erection of a 2-story brick school at Forest Hill. Stevens & Nelson Co., 1109 Hennen Bldg., New Orleans, are Archs.

✚LAKE CHARLES, LA.—It is reported that the contract has been awarded to the TEXAS BLDG. CO., Fort Worth, Tex., for erecting a court-house. The estimated cost is $180,132.

✚MONROE, LA.—The contract has been awarded to J. W. HOOD, Pine Bluff, Ark., for the construction of a hotel at $70,000.

SULPHUR, LA.—Bids will be received by John McNeese, Supt. of Schools, until noon, April 18, for the construction of a school. C. Carter, Lake Charles, La., is Arch.

MOUNT STERLING, KY.—Bids were received as follows on April 10 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a U. S. post-office building at Mount Sterling, Ky.: King Lumber Co., Charlottesville, Va., $57,700; George Becking, Chattanooga, Tenn., $59,371; J. G. Unkefer & Co., Minerva, Ohio, $50,830; Newport Contracting & Engineering Co., Newport News, Va., $57,000; Barnes Bros., Logansport, Ind., $57,300; H. A. Bishop, Chicago, Ill., $50,000; Conners Bros. Co., Lowell, Mass., $62,000.

AMANDA, OHIO.—The Board of Education will receive bids April 28 for labor and material necessary to construct a grade school. Howard & Merriam, Capitol Trust Bldg., Columbus, Ohio, are Archs.

CINCINNATI, OHIO.—Bids will be received until May 10 by the Board of Hospital Comrs. for the construction of 18 buildings, composing main group of new general hospital of Cincinnati. Sam. Hannaford & Sons, Hulbert Blk., are Archs. The estimated cost is $2,000,000.

CLEVELAND, OHIO.—Tentative plans for a $4,500,000 hotel, office building and interurban railway station combined, to be erected on the southwest corner of thee Public Square, are about to be completed here.

✚The contract has been awarded to the HUNKIN-CONKEY CONSTRUCTION CO. for the new office building of the National Carbon Co. About $50,000 is to be spent in this improvement and work is to start at once.

LAKEWOOD (Cleveland post-office), OHIO.—The Board of Education will receive bids until April 27 for additions and improvements to the East School. C. W. Hopkinson, Rose Bldg., Cleveland, is Arch.

MANSFIELD, OHIO.—Bids will be received by the Board of Education until April 25 for constructing an addition to the Hedges School. Vernon Redding, Mansfield, Ohio, is Arch.

BLOOMINGTON, IND.—According to reports the Monon R. R. Co. has approved plans for the construction of a stone freight and passenger station. The estimated cost is $100,000. A. S. Kent, Chicago, Ill., is Engr.

✚DECATUR, IND.—MANN & CHRISTIAN, Decatur, have been awarded a contract to erect a large pressed brick school-house at North Grove, Miami County.

FOWLER, IND.—Plans have been ordered by the Commissioners of Benton County for the complete remodeling and modernizing of the County court-house. Bids will be received as soon as plans are completed. J. W. Gladdis, Vincennes, Ind., is Arch.

FORT WAYNE, IND.—The German American National Banking Co. is preparing to build a large business block on Calhoun St.

Plans are being prepared for the improvement and rebuilding of Hope Hospital in this city. The estimated cost is $100,000. I. N. Taylor is Chn. Trustees.

INDIANAPOLIS, IND.—The City Council has authorized a bond issue of $200,000 to erect a fire department headquarters and for the erection of two additional buildings at the City Hospital.

J. W. Fesler, Joseph H. Shea, S. R. Lyon and William Lowe Bryan, Trustees of Indiana University, are preparing to award a contract for the erection of a hospital building—the gift of Dr. R. W. Long. The estimated cost is $200,000.

NEW SALEM, IND.—The School Trustees are preparing to award a contract some time in June for the erection of a new high school building. The old school building has been condemned by the State Board of Health.

NOBLESVILLE, IND.—The City Council is preparing to ask for bids for the erection of a new Carnegie library building and a new city building. A bond issue is being sold.

PRINCETON, IND.—The City Council has ordered plans for the erection of a city hall. Clifford Shopbell, Evansville, Ind., is Arch.

SHELBY, IND.—A Trustee of Cedar Creek Township, Lake County, has ordered plans for the erection of a new school building in Shelby. The present building has been condemned by the State Board of Health.

TIPTON, IND.—The Commissioners of Tipton County have ordered plans for the erection of a new county infirmary. The State Board of Charities has condemned the old building. Bids will be received later on.

WABASH, IND.—B. F. Hubbard, School Trustee, will receive bids until April 21 for constructing an addition to the Linlau school.

✚DETROIT, MICH.—Van Leyen & Schilling, 1117 Union Trust Bldg., have awarded the following contracts for the new 1-story and basement parish hall, 50 × 150 ft., for the St. Frances Roman Catholic Church, Rev. Raymond Champion, Rector, High and Bourassa Sts.: Structural iron work, to WHITEHEAD & KALES, Beecher Ave.; masonry, to JOSEPH NOWAKOWSKI, 1214 Hastings St.

DETROIT, MICH.—Spier, Rohns & Gehrke, 1325 Chamber of Commerce Bldg., Detroit, Mich., will take figures about April 10 on a new 2-story and basement school building, 54 × 54 ft., for the Concordia Lutheran Society, of Delroy, Mich. (suburb of Detroit). Cost, about $40,000.

✚GRAND RAPIDS, MICH.—The contract has been awarded to HAUSER, OWEN & AMES, 302 North Ottawa St., for the construction of a brick and concrete roundhouse in the Wyoming yards for the Pere Marquette R. R. at $75,000.

OAK PARK, ILL.—Bids will be received until April 20 by N. H. Hatch, Secy. Bd. of Education for the construction of a school. E. E. Roberts, Oak Park, prepared plans. The estimated cost is $50,000.

*PANA, ILL.—Bids will be received by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until May 17 for the construction, complete (including plumbing, gas piping, heating apparatus, electric conduits and wiring), of the U. S. post-office at Pana, Ill., in accordance with drawings and specification, copies of which may be obtained from the Custodian of site at Pana, Ill., or at this office at the discretion of the Superv. Arch.

EAU CLAIRE, WIS.—Shattuck & Hussey, Chicago, have completed plans and specifications for the proposed new building for the Eau Claire Y. M. C. A., to cost $100,000. The building will be four stories and basement, of reinforced concrete and brick construction, with stone trimmings. Bids are now being received at Eau Claire.

✚FOND DU LAC, WIS.—The Wisconsin Telephone Co., Alonzo Burt, Pres., Milwaukee, has awarded contracts for the construction of an $85,000 exchange building at Fond du Lac, Wis., as follows: General construction, MAJESTIC CONSTRUCTION CO., Majestic Bldg., Milwaukee; plumbing, heating and gas-fitting, AHERN-McCOY CO., Fond du Lac, Wis. The building will be of reinforced-concrete construction, two stories high and basement, with brick facings and Bedford stone embellishments. A. C. Eschweiler, Goldsmith Bldg., Milwaukee, is Arch.

FOREST JUNCTION, WIS.—Bids will be received by the Board of Directors of the Forest Junction State Bank until noon, April 15, for the construction of a brick bank building. William F. Hiltgen, Cedarburg, Wis., is Arch.

MILWAUKEE, WIS.—Six buildings will be erected here by the Milwaukee County Agriculture School. The estimated cost is $200,000. Arthur H. Peabody is Superv. Arch., Madison, Wis. The estimated cost is $200,000.

At the election on April 4, the proposition to issue bonds in the sum of $320,000 for school construction purposes was adopted. The Board of School Directors will now proceed with the erection of a new East Division high school building at $235,000 and additions to two ward school buildings to cost $35,000 and $50,000, respectively. No architects have been chosen. Frank M. Harbach is Secy. and Mgr.

The Evangelical Lutheran Emmaus congregation has voted unanimously to erect a new edifice of brick to replace the church building recently destroyed by fire on the same site at Hadley and 23d Sts. Rev. John F. Rubel is Pastor.

SHAWANO, WIS.—The County Board of Supervisors has voted to appropriate $100,000 for the erection of a county insane asylum and almshouse here. The money will be raised by a bond issue.

WEST BEND, WIS.—Antone Tilman, County Clk., will receive bids until April 25 for constructing a 2-story, 129 × 94-ft. County house. J. E. Henner, Fond du Lac, is Arch.

GIBSON, IOWA.—Bids will be received until May 3 by J. C. McKain, Secy. Board of Dirs., for the construction of a school building for the Independence School District. Harry E. Northcott, Independence, is Arch.

COHASSETT, MINN.—Bids will be received until April 26 by the School Board of Cohassett for constructing an 8-room brick school. The estimated cost is $45,000. F. W. Hollister, Saginaw, Mich., is Arch.

NANTORVILLE, MINN.—Bids will be received by the Board of Education until April 20 for constructing a school. F. D. Orff, 615 Lumber Exchange, Minn., is Arch.

COFFEYVILLE, KAN.—Bids will be received by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until May 18, for the construction of the U. S. post-office at Coffeyville, Kan. Drawings and specification may be obtained from the Custodian of site at Coffeyville, Kan., or at the discretion of the Superv. Arch.

WICHITA, KAN.—The Santa Fe, Rock Island, Frisco & Orient R. R. will erect a union station here to cost $2,000,000. C. F. W. Felt, Topeka, is Ch. Engr.

BROKEN BOW, NEB.—W. H. Osborn, Jr., County Clk., will receive bids until April 25 for the construction of a 3-story courthouse. John Latenser, Bee Bldg., Omaha, is Arch.

NORTH PLATTE, NEB.—Bids will be received by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., May 2, for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring), of the U. S. post-office at North Platte, Neb. Drawings and specification may be obtained from the Custodian of the site at North Platte, Neb., or at the discretion of the Superv. Arch.

LEAD, S. DAK.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has revoked the award to J. H. Wiese, South Omaha, Neb., for the construction of the U. S. post-office at Lead, S. Dak., and will readvertise for bids. (Noted March 23.)

SIOUX FALLS, S. DAK.—Bids will be received by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until May 20, for the construction of an addition to the U. S. post-office at Sioux Falls, S. Dak. Plans and specifications may be obtained from the Superv. Arch.

WARRENSBURG, MO.—Bids will be received by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until May 22 for the construction, complete (including plumbing, gas piping, heating apparatus, electric conduits and wiring), of the U. S. post-office at Warrensburg, Mo. Drawings and specification may be obtained from the Custodian of site at Warrensburg, Mo., or at the discretion of the Superv. Arch.

PRESCOTT, ARK.—Bids will be received until April 29 by A. M. Denham for the construction of a court-house. Theo. M. Sanders, Southern Trust Bldg., Little Rock, is Arch.

CLEBURNE, TEX.—The local lodge of the Woodmen of the World has had plans prepared for a new opera house building and hall that they will erect at a cost of about $55,000. The contract for its erection will soon be awarded.

EL CAMPO, TEX.—The Victoria Investment Co. has had plans prepared for four 2-story brick business buildings that it will erect here.

EL PASO, TEX.—The plans for the new hotel that is to be erected here by William Miller & Sons Co., Pittsburg, Pa., will be drawn by F. M. Andrews & Co., New York. Trost & Trost, of El Paso, have been selected as the Supervising Architects. The structure will cost about $800,000.

FORT WORTH, TEX.—Montgomery Ward & Co., Chicago, will erect a 5-story, fireproof, modern building here, 100 × 100 ft. sq., giving a total of 50,000 ft. of floor space. The company will occupy it with a branch establishment.

HARLINGEN, TEX.—Bids will be received until April 15 for the erection here of a public school building to cost about $40,000. It will be of brick construction.

HOUSTON, TEX.—The Houston-Galveston Interurban Ry. Co., which is a Stone & Webster concern, has purchased a site for its proposed car barns at the foot of Texas Ave. Plans for the buildings are now being prepared.

The plans for the proposed $50,000 annex to the First National Bank building have been prepared by Sanguinet & Staats, Archs. The new structure, which is to consist of two stories and basement, will be used to house the power plant that is now located in the basement of the present building, and for offices for the building superintendent and employees.

TEMPLE, TEX.—Bids will be received until April 25 for the erection of a new Federal building here to cost $50,000. F. L. Irwin is Postmaster.

Drs. Scott and White are advertising for bids for the erection of a 28-room annex to their sanitarium building here. The addition will be of brick construction.

WACO, TEX.—W. T. Watt, Pres. of the Provident National Bank of Waco, is promoting the erection here of a 14-story steel, brick and terra cotta sanitarium building. It is estimated that the project would require the investment of about $300,000.

VICTORIA, TEX.—The Schumacher Grocery Co. will erect a new brick store building here. Jules Leffland, Victoria, is preparing the plans.

*PHOENIX, ARIZ.—Bids will be received until May 19 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring), of the U. S. post-office and court-house at Phoenix, Ariz. Drawings and specification may be had from the Custodian of site at Phoenix, Ariz., or the discretion of the Superv. Arch.

MONROE, WASH.—A new wing will be constructed here for the Washington State Reformatory. The estimated cost is $200,000. Corwin S. Shank, 1005 Alaska Bldg., is Pres. Bd. of Dirs. Saunders & Lawton are Archs.

SEATTLE, WASH.—Okey J. Gregg, Empire Bldg., has prepared plans for the construction of a building at East Union St. and 23d Ave. It will be four stories high, 118 × 120 ft., and of brick veneer construction.

✚The contract has been awarded to the ART METAL CONSTRUCTION CO., Jamestown, N. Y., at about $50,000 for the construction of the entire fixture work in the bank of the Union Savings & Trust Co. The work includes floors, bronze, marble, etc. Bibb & Mendel, Denny Bldg., are Archs.

SEATTLE, WASH.—Gaggin & Gaggin, University Bldg., Syracuse, N. Y., are receiving bids for the 42-story building which the L. C. Smith estate will erect in Seattle, Wash., at a cost estimated at $1,500,000. It is expected the figures will all be in and a contract awarded within a month.

BERKELEY, CAL.—See item under Miscellaneous Contracts: Roofing, Sheet Metal Work, Berkeley, Cal.

SAN FRANCISCO, CAL.—Bids will be received in triplicate until May 3 for the construction of a reinforced concrete barracks for four troops of cavalry. George McK. Williams will receive bids.

SAN LUIS OBISPO, CAL.—Righetti & Headman, Phelan Bldg., San Francisco, are preparing plans for an addition to the County Court-house to be 3 stories, brick and concrete. The cost is about $75,000.

SAN PEDRO, CAL.—Arthur Stibolt, Grant Bldg., Los Angeles, is preparing plans for a large warehouse to be erected here for the Western Yukon Groduer Co. The structure will be six stories in height and cover a space 85 × 188 ft.

SELMA, CAL.—The following bids were opened by the Board of School Trustees for the construction of a 2-story reinforced-concrete building, 86 × 147 ft., with composition roof, maple floors and with pine trim, F. S. Allen, Arch., 702 Delta Bld., Los Angeles: Martin & Witter, $56,149; Truitt & Shields, $57,933; John Waden, $57,967; Oscar Parlier, $60,020.

MONTREAL, QUE.—Bids will be received until 4 p. m., April 26, by R. C. Desrochers, Secy. Pub. Wks. Dept., Ottawa, for alterations to Central post-office building. Plans and specifications can be seen at Dept. Ottawa, or office of Theo. Daoust, Arch., St James St., Montreal.

NEWMARKET, ONT.—Bids will be received until April 15 by L. G. Jackson, Secy. Bldg. Com., for remodelling and improving the Methodist Church here. G. M. Miller & Co., General Trust Bldg., Toronto, are Archs.

TORONTO, ONT.—Bids will be received until April 15 for the erection of a hall for the Musical Protective Ass'n. Plans and specifications may be seen at the office of Charles J. Read, 404 Confederation Life Bldg.

Bids will be received until April 15 for all labor and materials required for the construction of buildings for the Homewood Sanitarium, Guelph. Plans and specifications may be seen at the office of G. M. Miller, Toronto, Ont., Arch.

TORREON, MEX.—The Banco de la Laguna, of Torreon, has had plans prepared for the erection of a bank and office building here to cost $125,000.

BELGIUM.—See item under Miscellaneous Contracts: Harbor Works—Belgium.

WATER SUPPLY—IRRIGATION.

(✚Denotes a contract awarded.)

BOSTON, MASS.—Bids were received as follows on April 5 by Louis K. Rourke, Comr. Pub. Wks., for 7,500 ⅝-in., 350 1-in., and 150 1¼-in. meters, all of disc pattern; Hersey Mfg. Co., Boston (Models F), $5, $10 and $19.50; H. R. Worthington, New York, $7 D Model, $5.10 B Model, $12 D Model, $10 B Model, $25 D Model, $10 B Model; Pittsburg Meter Co., $8, $16, and $30; Neptune Meter Co., New York, $8, $16 and $30; National Meter Co., New York, $8, $16 and $30; Thompson Meter Co., New York, $8, $16 and $30.

✚EASTHAMPTON, MASS.—The Water Board has awarded the contract for furnishing pipe, it is reported, to R. D. WOOD & CO., 400 Chestnut St., Philadelphia, at $22.12 per ton. About 4½ miles of 8 and 6-in. pipe will be required.

BUFFALO, N. Y.—We are officially advised that bids were received on April 7 as follows by the Board of Public Works for furnishing and erecting complete a feed water heater and purifying system for the Massachusetts Ave. pumping station: Power Plant Specialty Co., Chicago, Ill., $14,807; George F. Blake Mfg. Co., Buffalo, $15,496; Evans, Almirall & Co., New York, $15,850. F. G. Ward is Comr. Pub. Wks.

CONKLINGVILLE, N. Y.—Maps and plans for the construction of the proposed storage reservoir on the Sacondaga River at Conklingville, have been filed in the office of the County Clerk, Lake George.

*FORT H. G. WRIGHT (New London, Conn., post-office), N. Y.—Bids will be received until 11 a. m., April 25, by Capt. F. T. Arnold, Constr. Q. M., U. S. A., for the construction of additions to the water system at Fort H. G. Wright, including two reinforced-concrete pump houses, two electrically-driven centrifugal pumps, water mains and reinforced-concrete storage reservoir.

NEW YORK, N. Y.—Bids will be received by Henry S. Thompson, Comr. Water Supply, Gas and Electricity, until 2 p. m., April 19, for making test borings. Section 1, for a proposed pressure tunnel crossing under the Harlem River, north of Central Bridge. Section 2, for three proposed tunnels, one at Westchester Ave. and Bronx River, one at River Ave. and New York Central R. R., and one at 135th St. and Mott Haven Canal.

NEW YORK, N. Y.—Bids will be received by Henry S. Thompson, Comr. of Water Supply, Gas and Electricity until 2 p. m., April 21, for furnishing and delivering valves.

NEW YORK, N. Y.—Bids will be received by Henry S. Thompson, Comr. Water Supply, Gas an dElectricity, until 2 p. m., April 26, 1911, Sectio n1, for furnishing, delivering and installing pump slip indicators at Ridgewood and Millburn pumping stations; Section 2, for furnishing all materials and labor for constructing pitometer vaults at Ridgewood and Millburn pumping stations.

✚OGDENSBURG, N. Y.—The Board of Water Commissioners has awarded the contract to L. B. CLEVELAND, Watertown, N. Y., for the construction of a pump-house, filters, intake and mains, at $79,850.

RIVERHEAD (L. I.), N. Y.—We are officially advised that W. E. Sexton, Consult. Engr., Mineola (L. I.), N. Y., has been engaged to prepare plans and specifications for the installation of a municipal water system here. The following are the approximate quantities: Eight miles of 6 to 12-in. mains; 125 fire hydrants; two triplex power pumps, each 750 gallons per min.; two 75-HP. gas engines and gas producers; brick and concrete pumping station; 150,000-gallon steel tank; tower, 150 ft. high. Estimated cost, $90,000.

*SKILLMAN, N. J.—Bids will be received by Dr. David F. Weeks, Supt. New Jersey State Village for Epileptics, until May 1 for furnishing material and extending the water system, including the hydrants, gates, etc.

*TROY, N. Y.—Bids were received by the Board of Contract and Supply, as follows, for the construction of the Martin-Dunham Reservoir on March 31: Reservoir Construction: McDonough Construction Co., Troy, $155,278; Corliss Construction Co., $158,851; Philip Casey, $174,703; Brown & Lowe, $186,284; Powers & Mansfield Co., $190,219; Haggerty & Drummond Co., $214,410; Winston Construction Co., $219,529. Cast Iron Pipe: John Fox & Co., $2,163; Donaldson Iron Co., $2,153; Charles Millar & Sons Co., $2,138; R. D. Wood & Co., Utica, N. Y., $1,997. Valves, etc.: Ludlow Valve Co., Troy, $978; Eddy Valve Co., $1,033; Rensselaer Valve Co., $1,037.

BAYONNE, N. J.—Bids will be received until 8 p. m., April 18, by the City Council for all labor and material required for laying water mains in West 22d St., from Ave. A to Newark Bay; in Newman Ave., from Third to Fourth Sts.; in Garretson Ave., from Third to Fourth Sts. The work will require about 1,660 lin. ft. of 8-in. c.-i. water pipe, together with hydrants and other appurtenances. W. C. Hamilton is City Clk.

*BLOOMFIELD, N. J.—Bids will be received until 8 p. m., April 17, at the office of Raymond F. Davis, Town Clk., for furnishing c.-i. bell and spigot water pipes and specials. The following are the approximate quantities, which are for the purpose of comparing bids only: 41 tons of 2,000 lbs., more or less 8-in., 41 tons 6-in., four tons 4-in. pipe and two tons specials for above pipe. Plans and specifications may be seen at the office of Ernest Baechlin, Town Engr., National Bank Bldg., Bloomfield.

BRANCHVILLE, N. J.—The Branchville Water & Improvement Co., it is reported, will construct a new reservoir.

*RAHWAY, N. J.—Bids will be received by the Board of Water Commissioners until 8 p. m., May 3, for furnishing and installing one 5,000,000-gallon, horizontal, high-duty, cross-compound, crank and flywheel pumping engine. Specifications may be obtained by appointment from A. F. Kirstein, Supt., at the office of the Board on and after April 19. Charles A. Hague is Consult. Engr.

✚SOUTH RIVER, N. J.—The borough has awarded a contract to the BUFFALO STEAM PUMP CO., of Buffalo, N. Y., for furnishing pumps for the water-works plant. The pumping equipment consists of two 5-in. 2-stage centrifugal pumps, each having a capacity of 800,000 gallons of water per day against a total head of 135 lbs. The pumps will be driven by 75-HP., 1,700-r.p.m., Fort Wayne motors.

✚*AKRON, PA.—We are officially advised that the contract for the erection of a water plant has been awarded by the borough to O. E. CHRIST, of Ephrata, Pa., at $11,903. P. D. Getz is Clk. Boro. Council.

BELLEVUE, PA.—Plans and specifications are being prepared by Chester & Fleming, Consult. Engrs., Union Bank Bldg., Pittsburg, Pa., for a concrete lining for a large circular masonry reservoir belonging to the Ohio Valley Water Co., at Bellevue. This work will be completed at an early date.

PITTSBURG, PA.—It is reported that the city will construct a new reservoir for the North Side on Cabbage Hill. Charles A. Finley is Water Supt.

PITTSBURG, PA.—Bids will be received until 10 a. m., April 17, by the city, at the office of the City Controller, for the Mission St. pumping station building and appurtenances. Joseph G. Armstrong is Dir. Pub. Wks.

ZELIENOPLE, PA.—Bids will be received by the Borough Council until 7 p. m., April 20, for constructing reservoirs and an 8-in. rising main. Approximately 4,000 cu. yds. excavating, 1,920 sq. yds. of reservoir lining and 2,740 lin. ft. 8-in. c.-i. pipe. W. J. Meeder is Secy.

WASHINGTON, D. C.—Bids will be received until 2 p. m., April 21, by the Commissioners of the District of Columbia, for furnishing about 2,411 tons of 16 and 20-in. c.-i. water pipe, and about 90 tons of c.-i. water pipe specials.

ROMNEY, W. VA.—The city has voted to issue $15,000 of bonds for the construction of water-works, the reservoir to be located at Mechanicsburg Gap. A. N. McKeever is Mayor.

THOMASVILLE, N. C.—Bids will be received until April 20 by the city for the construction of water-works and sewers. J. B. McCrary & Co. are Engrs, Atlanta, Ga.

✚ATLANTA, GA.—The Water Board has awarded contracts for furnishing the city with water meters to the THOMPSON METER CO., Brooklyn, N. Y., at $7.20 per meter, and to the GAMAN METER CO., of Newark, N. J., at $7 per meter. The former company will furnish 75% of the meters, and the latter 25%. Between 2,500 and 3,000 meters will be needed during the year.

SUMMERVILLE, GA.—The town has voted to issue $30,000 of bonds for the extension of the water and sewer systems.

FORT DADE (Egmont post-office), FLA.—Bids will be received until 10 a. m., April 29, by the Constructing Quartermaster, U. S. A., Fort Dade, for an addition to the water-supply system.

ASHVILLE, ALA.—The town is considering the construction of a water-works system.

FAYETTE, ALA.—The construction of a water-works system is being considered by the city.

NEW ORLEANS, LA.—The Sewerage and Water Board is considering the extension of the water-works system. W. J. Hardee is City Engr.

GREENVILLE, ALA.—[illegible] cided to improve the water [illegible]

✚NORWALK, OHIO.—[illegible] on April 4 opened bids [illegible] labor for the construction [illegible] mains as follows: Pipe, [illegible] Massillon, Ohio, $33.50 [illegible] Cast Iron Pipe & Foundry [illegible] $23.60 per ton; BUCKEYE [illegible] CO., Norwalk, $23.25 per [illegible] tract).

✚SUGAR CREEK, OHIO.—[illegible] advised that 22 bids were [illegible] on April 4 for the construction [illegible] works system. Contracts [illegible] follows: Pipe and special [illegible] PIPE CO., Coshocton, [illegible] 6-in., $22.50 per ton. [illegible] SHEETS, Newcommerstown, [illegible] for 4-in., 20 cts. [illegible] gallon tank and tower, [illegible] BRIDGE & IRON CO., [illegible] $1,995. Valves, hydrants and [illegible] DARLING PUMP & MFG. Co. [illegible] 4-in. valves, $6.50; 6-in. [illegible] valve boxes, $2.70. Bids for [illegible] gines will be asked as soon [illegible] wells are completed.

TOLEDO, OHIO.—Bids will [illegible] until April 27 by the Board of [illegible] for furnishing material and [illegible] plete the high-pressure fire [illegible] the pumping station, necessary [illegible] etc., such as c.-i. pipe, hydrants [illegible] Shane is Secy. Bd.

✚NATIONAL MILITARY HOME, [illegible] The contract for machinery, [illegible] improving water supply at [illegible] Branch, Nat. H. D. V. S., bids for [illegible] opened on March 25, has been awarded to JOHN E. WEIGEL, of Marion, [illegible] $6,400.

✚DETROIT, MICH.—The contract for furnishing 300 tons of special water pipings, for which bids were opened March 28, has been awarded to the AMERICAN [illegible] & FOUNDRY CO., at $2.15 per [illegible]

✚LANSING, MICH.—The Water Works and Electric Light Commissioners have awarded the contract for a centrifugal pump to the ALLIS-CHALMERS CO., of Milwaukee, Wis. The pump guaranteed to have a capacity of [illegible],000,000 gallons.

✚MUSKEGON, MICH.—A contract has been awarded to ROBERT LOVE & SONS by the Central Paper Co. for the construction of an intake pipe, at about $12,000.

AURORA, ILL.—Bids will be received until April 14 by T. D. Stimson, Supt. Water Dept., for furnishing and installing [illegible] separate bids to be submitted for one and two boilers to be safety water-tube type of about 230 HP. each, and for working pressure of 150 lbs.

CHERRY, ILL.—Bids will be received until 7 p. m., April 17, by Thomas Hearn, Village Clk., for a 75-ft. steel standpipe, 16 ft. diameter.

RUSHVILLE, ILL.—The Fuller-Gould Chemical Bldg., St. Louis, Mo., has been engaged by the city to prepare plans for the construction of a pumping station and pipe line. Estimated cost, $30,000.

SHELBYVILLE, ILL.—The Shelbyville Water Co. has decided to construct a reservoir here, with a capacity of 2,000,000 gallons. Estimated cost, $8,000. Charles Chester is Supt., Shelbyville.

TOULON, ILL.—Bids were received on March 24 by the city as follows for constructing a system of water-supply pipes: M. Murphy, Chicago, $15,712; Iler Mfg. Co., Bridge & Iron Co., $14,968; T. F. Prosser & Fletcher, Blue Island, $14,792; A. D. Anderson & Co., Kewanee, $16,237; Kewanee Sanitary Supply Co., Kewanee, $13,161; C. T. Bartlett, Evanston, $14,740; Cook Construction Co., Des Moines, Iowa, $14,972; George A. Maleny, Kewanee, $14,782; A. D. Thompson, Peoria, $14,711; John O'Neill & Sons, Peoria, $17,148. The work consists of 1,300 ft. of 8-in., 8,150 ft. 6-in., and 13,350 ft. 4-in. c.-i. water pipe, 47 hydrants, 22 valves, 8-in., 6-in., and 4-in., and 21 boxes.

✚WHEATON, ILL.—Bids have been received for water-works improvements. Contracts have been awarded as follows: For 60-HP. gas engine and gas producer to the NATIONAL METER CO., Chicago and New York; two centrifugal pumps to AMERICAN WELL WORKS, of Aurora, a 100,000-gallon concrete reservoir to EUGENE STARK, of Wheaton; excavation work to J. C. WHEATON, of Wheaton.

✚MILWAUKEE, WIS.—Contracts were awarded as follows on April 2 by H. E. Briggs, Comr. Pub. Wks., for furnishing and laying water pipe this year, as may be required by the Water Department for the extension of the service: To R. M. McGUCKEN, Milwaukee, for laying 6 and 8-in. pipe, at 30.75 cts. and 35.75 cts. per lin. ft. respectively; to JOHN HICKEY, for laying 12-in. and 16-in. pipe, at 52.5 cts. and 62.5 cts.; for furnishing pipe, to the WISCONSIN CAST IRON PIPE & FOUNDRY Co., at $24.65 per ton, and $50 per ton for castings.

✚WATERTOWN, WIS.—Bids were received by the Board of Park Commissioners on April 3 for establishing a sprinkler system in the Sixth Ward Park. The work consists of furnishing and setting up complete a turbine pump, including electric motor, furnishing and laying of 1,605 ft. of 3-in. pipe, 625 ft. of 2½-in. and 210 ft. of 2-in. pipe and all necessary fittings and fixtures, and furnishing 400 ft. of 1-in. rubber hose and four automatic revolving sprinklers. The contract has been awarded to KEHR Bros., of Watertown.

WESTFIELD, ILL.—W. R. Paige, Consult. Engr., Terre Haute, Ind., has been engaged to prepare plans for the construction of a water-works system here. Bids will be asked about May 1.

ANITA, IOWA.—The W. K. Palmer Co., Dwight Bldg., Kansas City, Mo., is preparing plans for remodeling the water works plant, and for the installation of a municipal electric lighting plant and system. Estimate cost, $30,000.

DUBUQUE, IOWA.—**The city is considering** improvements to the water-works system.

✚NEVADA, IOWA.—The contract for the construction of the water-works system has been let to CITY E. SMITH, of Indianola, Iowa.

✚OTTUMWA, IOWA.—The contract has been awarded by the Board of Water Trustees to CHARLES JONES for constructing the clear-water basin, capacity 3,000,000 gallons, at about $50,000. The basin will be 300 ft. long 150 ft. wide and 9 ft. deep, and will be located below the old filter house. The dirt embankment will be 15 ft. high and the basin will be of stone.

*SIOUX CITY, IOWA.—Bids will be received until 10 a. m., April 22, by the City Clerk for the construction of a 100,000-gallon steel tank and tower; also for furnishing and installing two triplex single or double-acting power pumps and two gasoline engines. Specifications may be had at the office of G. B. Healey, Supt. Parks and Public Property.

WATERLOO, IOWA.—The city is considering making water main extensions, requiring about 1,000 tons of c.-i. pipe. J. P. Berry, Supt. Water Dept.

ALEXANDRIA, MINN.—C. J. Sundblad, City Clk., will receive bids until 7.30 p. m., April 25, for the construction and installation of water mains in Sixth Ave.

CLOQUET, MINN.—See item under Sewers.

TACONITE, MINN.—The Duluth Engineering Co., Duluth, Minn., has prepared plans for the installation of a water-works system here. Estimated cost, about $15,000.

✚COLDWATER, KAN.—The contract has been awarded to F. M. CLARKE, of Savannah, Mo., by the city for the construction of a water-works system here. Bids were opened on March 30.

✚HERINGTON, KAN.—The contract has been awarded to J. W. KELSO for increasing the water supply at about $8,000.

SEDGWICK, KAN.—The city is considering the construction of a water-works system. Estimated cost, $20,000. R. R. Hobbe is City Clk.

ST. PAUL, NEB.—S. W. Jackson, City Clk., will receive bids until 8 p. m., April 17, for the extension of the water-works system.

✚GETTYSBURG, S. DAK.—Bids were received by F. M. Wright, City Audr., on March 29 for furnishing material and constructing water-works. The contract has been awarded to the COOK CONSTRUCTION CO., of Des Moines, Iowa, at $14,000.

✚PIERRE, S. DAK.—The contract has been awarded by the State Capital Commission to WARREN COPPAGE & CO., of Pierre, for the installation of a gas tank and engine at the artesian well, at $15,000.

FARGO, N. DAK.—Bids will be received until April 27 by the City Auditor for a 6,000,000-gallon purification plant; also for furnishing and installing a high-duty crank and flywheel pumping engine, having a capacity of 4,000,000 gallons per 24 hours, and three water-tube steam boilers, complete.

✚LEWISTON, MONT.—The contract has been awarded to the U. S. CAST IRON PIPE & FOUNDRY CO., Rookery Bldg., Chicago, Ill., by the City Council for furnishing about 50,000 ft. of c.-i. water pipe for the proposed water system, at $48,070. The contract for valves has been awarded to J. B. CLOW & SONS CO., 350 Franklin St., Chicago, Ill., at $7,559. The MONTANA HARDWARE CO., of Butte, Mont., will furnish the jute and lead at about $3,000.

KANSAS CITY, MO.—Bids are being asked by the Fire and Water Board Commissioners for furnishing 500 ⅝-in. water meters. E. B Harrington is Secy.

ALVIN, TEX.—W. C. Hunt, of Alvin, and associates, have been granted a franchise for the construction of a water-works system here. The distributing system will extend all through the business and residence portions of the town. Estimated cost, about $25,000.

BARSTOW, TEX.—The Barstow Irrigation Co., of Barstow, will construct a large water storage reservoir and make other improvements to its system of irrigation at a cost of several hundred thousand dollars.

LEUDERS, TEX.—S. M. Swenson & Sons will install a large irrigation pumping plant on the Clear Fork of the Brazos River, three miles below here. If this plant proves a success the firm will install, it is stated, several other pumping plants at points on the Brazos River to irrigate its lands.

SHERMAN, TEX.—Bids will be received until 8 p. m., May 1, by the Superintendent of Water Works for two deep wells, internal combustion engine, gas producer, air compressor, electric generator, motors, switchboards and power-driven pumps.

Bids will also be received until May 8 for equipment for the proposed water-works. B. C. Kreager is City Secy.

WINTERS, TEX.—The O'Neil Engineering Co., of Dallas, Tex., has prepared plans for the construction of water-works here. Contracts will be awarded in about five weeks. Estimated cost, $20,000. W. J. McFarland, of Winters, is in charge.

✚CHECOTAH, OKLA.—Bids were received on March 27 by the city for the complete installation of a water-works pumping station, 7,000 ft. of 8-in. iron pipe, two double-acting triplex pumps, pole and wire line, etc. The contract has been awarded to C. R. NICHOLS, of Checotah, at about $13,000.

✚LAMONT, OKLA.—The city is considering the construction of a water-works system. Estimated cost, $20,000. W. F. Porter is City Clk.

OKLAHOMA CITY, OKLA.—The city has decided to construct a new sedimentation basin, 200 ft. long, 100 ft. wide, and 12 ft. deep. Bob Parman is City Clk.

WAYNOKA, OKLA.—The citizens, it is stated, have voted $27,000 of bonds for the installation of a water-works system.

BOULDER, COLO.—The Highland River Power Co., of Boulder, will construct a plant soon to cost $375,000. The company will do all of the construction. They require 3,500 ft. of metal pipe for water, 10,000 bbls. of cement and 3,000 KW. electric machinery. H. Von Schon, Detroit, Mich., is Engr. I. N. Bair is Secy. of the Highland Co.

TUCSON, ARIZ.—The Arizona Power & Irrigation Co., of Tucson, is having surveys made for two large reinforced-concrete reservoirs to be constructed in Rincon Canyon. S. G. McWade, of Tucson, is Engr.

TACOMA, WASH.—Revised bids for laying 37 miles of wooden pipe and nearly 9,000 ft. of steel pipe from the headworks on Green River to the reservoir, in connection with the new Green River gravity water system for Tacoma have been opened as follows, by Nicholas Lawson, Comr. Light and Water: George P. Wright; Tacoma, $736,751; Pacific Coast Pipe Co., Seattle, $767,928; Nisqually Contract Co., Tacoma, $771,712; C. L. Morris Construction Co., Seattle, $784,581; P. E. McHugh, Tacoma, $790,061; Jahn Contracting Co., $790,354; B. W. Kibler, Tacoma, $810,082; Sound Construction & Engineering Co., $810,209; International Contract Co., Seattle, $861,235. The estimate of R. H. Thomson, City Engr., was $825,000.

AURORA, ORE.—The Pacific Pipe & Tank Co. has been engaged by the city to prepare plans for the erection of a tower 80 ft. high, and a 15,000-gallon tank.

✚DUFUR, ORE.—The Dufur Water Commission has awarded the contract to the WASHINGTON PIPE & FOUNDRY CO., of Tacoma, Wash., for furnishing the pipe for extensions in the western part of the town.

MADRAS, ORE.—The town has voted to issue $10,000 of bonds for the installation of a water system.

ROSEBURG, ORE.—It is reported that J. L. Kendall, owner of the water and light plant, will award contracts soon for the construction of about eight miles of water mains and laterals. H. J. Frear is Mgr.

MORGAN HILL, CAL.—The city is considering the construction of a water system at an approximate cost of $13,000. Bids will be advertised about June. W. Fisher is City Engr.

SAN FRANCISCO, CAL.—Bids will be received until April 20, it is reported, by the Spring Valley Water Co., San Francisco, for the construction of a dam in Calaveras Valley.

BERLIN, ONT.—Bids will be received until April 13 by Bowman & Connor, Consult. Engrs., for furnishing c.-i. pipe, hydrants, valves, lead and a water tower.

MOOSE JAW, SASK.—Bids will be received until 8.30 p. m., April 17, by W. F. Heal, City Clk., for 300 ⅝-in., 50 ¾-in., 25 1-in. and twelve 2-in. water meters. J. M. Wilson is City Engr.

SASKATOON, SASK.—Bids will be received by the City Commissioners until noon, April 21, for Contract No. 89, furnishing c.-i. pipe and specials; Contract No. 90, furnishing fire hydrants, gate valves and valve boxes; Contract No. 91, furnishing sewer pipe and junctions; Contract No. 92, furnishing manhole frames and covers.

SEWERS.

*(*Denotes that this work is advertised in Engineering News.)*

MANCHESTER, CONN.—The South Manchester Sanitary Dist. is planning to extend its sewer system. Same to build entirely on private property. Also on Olcott St.

BATAVIA, N. Y.—Bids will be received by the Batavia Sewer Commission until 10 a. m., May 15, for labor and materials necessary to construct the preliminary settling tanks of the Imhoff type, sprinklers and sludge drying beds, including necessary fittings and appurtenances. Plans and specifications may be seen at the office of Hering & Fuller, Consulting Engineers, 170 Broadway, New York City. The plans may be seen, and specifications and forms of proposal obtained from Charles Hoopes, Resident Engineer, at the office of the Sewer Commission in Batavia, N. Y. For further details see advertisements.

BUFFALO, N. Y.—The City Council has ordered the construction of 10-in. tile sewers in the west side of South Ogden St. south of Clinton St. and in the west side of Morgan St., between Tracy and Tupper Sts., and directed the Commissioner of Public Works to advertise for bids.

DODGEVILLE, N. Y.—This village has voted a bond issue of $12,000 for the extension of the sewerage system. H. I. Fatrie is Chmn of Sewer Comn. Chas E. Collins, Drexel Bldg., Philadelphia, is Engr.

EAST AURORA, N. Y.—The Board of Village Trustees will receive bids until April 18 for construction of a system of sewers and a sewage disposal plant from plans by Fred'k K. Wing, 910 White Bldg., Buffalo. D. N. Rumsey, Clk. of Village Board.

NEW YORK, N. Y.—Bids will be received by Lawrence Gresser, Pres. Boro. of Queens, until April 24, to construct a sewer and appurtenances in Woolsey Ave., from Hallett St. to Van Alst Ave., First Ward, and a temporary receiving basin o nthe southwest corner of Wainwright Pl. and Central Ave., at Rockaway Beach, Fifth Ward; to construct a temporary receiving basin on the northeast corner of Judson Ave. and the Boulevard, at Rockaway Beach, Fifth Ward; a sewer and appurtenances in Freeman Ave., from Crescent St. to Radde St., First Ward; sewer and appurtenances in Ninth Ave., from Graham Ave. to the crown 295 ft. south of Pierce Ave. to Eighth Ave., and in Eighth Ave., from Pierce Ave. to Graham Ave., First Ward.

NEW YORK, N. Y.—Bids will be received until April 19 by Alfred E. Steers, Pres. of the Boro. of Brooklyn, for furnishing all the labor and material required for constructing a sewer in Thirteenth Ave., between 36th and 39th Sts., with an outlet sewer in 38th St., between Thirteenth and Fourteenth Aves.; for constructing a sewer in 89th St., between Second and Third Aves.; for furnishing all the labor and material for a sewer in 55th St., between Eleventh and Twelfth Aves.; for furnishing all the labor and material for repairing sewer in Jefferson Ave., between Ralph and Howard Aves.; for furnishing all the labor and materials required for a sewer in Thirteenth Ave., between 41st and 42d Sts.; for furnishing all the labor and material required for constructing sewer basins on Jewell St. at the southwest corner of Greenpoint Ave. and at the northeast corner of Meserole Ave.

PORT CHESTER, N. Y.—The Board of Trustees has approved the plans of Frederick S. Odell, of this village, for a sewage disposal plant on Fox Island, to cost $100,000. Charles O. Frederick is Acting Pres. of the Board.

NEWARK, N. J.—Bids will be received by the Board of Street and Water Commissioners on April 20 for the construction of a 10-in. sewer in Cabinet St., between Bruce St. and South Sixth St.; and for the construction of a 10-in. pipe sewer in Dickerson St., between Jay and Norfolk Sts.

WINCHESTER, KY.—Plans are being prepared by Chas. E. Collins, Drexel Bldg., Philadelphia, Pa., for a sewage disposal plant, consisting of settling tanks and sprinkling filters. Dr. M. S. Browne is Chmn of Sewer Comn.

COLUMBUS, OHIO.—Bids will be received until noon, April 14, for the construction of sewers in various streets. H. S. Holton is Dir. Pub. Serv.

DAYTON, OHIO.—Bids were received as follows on March 23 by William A. Budroe, Clk. Bd. of Pub. Ser., for construction of storm sewers in various streets: Sanitary Sewer Dist. No. 9, territory lying north of Victor St., T. J. Backus Construction Co., $14,301; Shafer & Dill, $15,968; R. J. Paul, $17,550. Sanitary Sewer Dist. No. 6, Lakeview Ave., from Germantown St. to new corp. line, Larkin Bros., $11,165; Shafer & Dill, $11,351; R. J. Paul, $12,598. Storm sewer in Phillips Ave., Muncie and Creighton Aves., Shafer & Dill $5,318 (awarded contract); T. J. Backus Construction Co., $6,015; R. J. Paul, $6,325. Storm sewer in Perry, First and Wilkinson Sts., R. J. Paul, $6,828; Schafer & Dill, $8,113.

NEWBURGH HEIGHTS (Cleveland P. O.), OHIO.—Bids will be received by A. W. Shatts, Vil. Clk., until noon, April 13, for the installation of a sewer in Cuyahoga St. R. Hecker, 720 Electric Bldg., Cleveland, is Vil. Engr.

PORTSMOUTH, OHIO.—The City Council is preparing to issue bonds to the amount of $6,000 for sewer construction in Portsmouth.

NEWCASTLE, IND.—The City Council will soon ask for bids for the converting into a large arch sewer of the open stream running through the city known as Bowery Brook. Estimated cost, $50,000.

FREEPORT, ILL.—The Board of Local Improvements will receive bids until 2 p. m., April 14, for the installation of two sewer systems. W. T. Rawleigh is Mayor.

MARSHALL, ILL.—The Board of Local Improvements will receive bids until April 17 for installing 1311 lin. ft. of 24-in. vitrified pipe sewer. W. H. Paige, Rose Dispensary Bldg., Terre Haute, Ind., is Engr.

IOWA FALLS, IOWA.—Bids will be received until 8 p. m., April 17, for the installation of a sanitary sewer in Dist. No. 11. J. O. Gregg is Clk.

AUSTIN, MINN.—The city will construct 6,600 ft. of sanitary sewers. The approximate cost is $6,800. Marlin Clausen is City Engr.

CLOQUET, MINN.—Bids will be received by the City Clerk of Cloquet, Minn., until May 1, for construction of sewers and watermains, including 13,600 cu. yds. excavation, 10,300 lin. ft. of 8-in. and 10-in. sewers, 12,000 lin. ft. 6-in. and 8-in. water-mains. Plans and specifications on file at the City Clerk's office.

HUMBOLT, KAN.—Bids will be received until May 8 for the construction of an 8-in. and 10 to 12-in. vitrified pipe sewers. The J. L. Worley Co., 217 Reliance Bldg., Kansas City, is Engr.

INDEPENDENCE, KAN.—Bids will be received by T. S. Underwood, City Clk., until 2 p. m., April 18, for constructing 1,340 lin. ft. of 4-in., 311 lin. ft. of 18-in. and 157 lin. ft. of 15-in. rain sewers.

GLASGOW, MONT.—Bis will be received until April 19 by the City Council for the construction of sewers in three special improvement districts. The estimated cost is $26,000. E. S. Severance is City Engr.

ST. LOUIS, MO.—The Board of Public Improvements, 300 New City Hall, will receive bids until noon, April 14, for sewer construction in the Gilaise Creek Sewer Dist. No. 4. James C. Traville is Pres.

DALLAS, TEX.—The City Commissioners have instructed the City Secretary to advertise for bids for the construction of a 6-in. sanitary sewer in the block between Bowser, Lemmon, Throckmorton and Knight Sts.

EL CAMPO, TEX.—A drainage system to cost $350,000, will be constructed in what is officially known as the El Campo Drainage District. Bonds for that amount have been voted for the purpose.

THE DALLES, ORE.—Bids will be received until May 15 for the construction of a section of the District No. 1 sewer system. Estimated cost is $225,000. L. T. Boyle is City Engr.

CONCORD, CAL.—This city has voted $29,000 bonds for sewer construction. Bids will be advertised for soon by Sloan & Robson, San Francisco, Engrs.

DIXON, CAL.—Bids will be received in May or June for the installation of a sewerage system and disposal works. The estimated cost is $40,000. Reynolds & Whitman, Dixon, are Engrs.

LOS ANGELES, CAL.—The following bids were received for constructing storm sewers in the bed of the Los Angeles River: W. N. Hendricks, proposed $19,000; Peter Grbovach, $15,500; R. N. Nickcevich, $18,300; Geo. Chutuk, $15,937; Geo. W. Tuttle, $17,940; S. M. Kerns, $17,350. The sewers will be of brick, concrete and vitrified pipe, from 16-in. to 3 ft. 6-in. in diameter.

EDMONTON, ALTA.—Bids will be received by the City Commissioner until 3 p. m., May 2, for the construction in tunnel of a concrete sewer 10 ft. 6 in. in internal diameter and approximately 3,280 ft. long. Plans and specifications and all particulars may be obtained from the office of A. J. Latchnell, Edmonton, Alta., City Engr.

*TORONTO, CAN.—Bids will be received by the Chn. Board of Control, until noon, May 9, for the laying of reinforced-concrete sewer pipe. For further particulars, see advertisement.

GARBAGE DISPOSAL.

(✚Denotes a contract awarded.)

BUFFALO, N. Y.—The contract for a 40-ton grate refuse destructor, with accessories, to be constructed at the present utilization plant, Hamburg and Scott Sts., has been awarded to the DESTRUCTOR CO., 111 Broadway, New York, at $14,775. Noted on April 6.

MAPLEWOOD, N. J.—Bids will be received by the South Orange Township Com. until April 18, for oiling about eight miles of streets for the coming season. Edward R. Arcularius is Clk.

COLUMBUS, OHIO.—We are officially advised that the city contemplates the construction of a shed for the street cleaning and rubbish wagons. Estimated cost, $20,000. Henry Maetzel is Ch. Engr. Dept. Pub. Ser.

REGINA, SASK. Bids will be received by A. J. McPherson, City Com., until noon, April 15, for furnishing one squeegee street-washing machine.

STREETS AND ROADS.

*(*Denotes that this work is advertised in Engineering News.)*

BOSTON, MASS.—Bids for constructing four State highways were received on April 4 and awarded as follows: Attleborough, awarded to C. E. HORNE, Milbury, at $5,967. Other bidders were: F. E. Ellis, Melrose, $6,564; Lane Quarry Co., Hingham, $6,774; Snow & Farrington, Wilmington, $7,[illegible]; and R. F. Hudson, Wilmington, $8,030. Agawam, from the end of the present State highway south to the Connecticut line, to CORDNER & MONTAGUE, Springfield, at $7,788. Other bidders were: Lane Constructing Corporation, Meriden, Conn., $7,870; F. E. Ellis, Melrose, $8,527; W. N. Flynt Granite Co., $9,149; R. F. Hudson, Wilmington, $9,332; C. E. Horne, Milbury, $9,900; E. N. De Noon & Co., Springfield; and Frank Williams, $11,957. Bernardston, from Falls River bridge towards the Gill line, to R. H. NEWELL, Uxbridge, at $8,944. Other bidders were: L. C. Corchia, $9,577; F. E. Ellis, Melrose, $9,872; Morelli & de Polito, North Attleboro, $10,096; S. Carnota, $10,349; Lane Construction Corporation, Meriden, Conn., $10,516; Thomas Bruno Revere, $11,091; C. E. Horne, Milbury, $12,135; Michael L. Carmarco, $12,244; James H. Farrom, Somerville, $12,281; R. F. Hudson, Wilmington, $12,356; D. L. and H. G. Perry, $12,898; William Orlando, Belchertown, $13,151; Coleman Bros., $13,216; A. D. Bridges Sons, Inc., Hazardville, Conn., $14,359; and W. N. Flynt, Mouson, $16,576. Chester, for constructing the gap of the State highway between the sections now built, to P. F. GIOVANNI, at $12,020. Other bidders were: Crow & Welch, Pittsfield, $13,991; Martin & Condon, Watertown, $13,918; J. W. Polcaro, Pittsfield, $14,033; O. T. Benedict, Pittsfield, $14,436; R. F. Hudson, Wilmington, $14,441; Michael L. Carmarco, $14,900; Lane Construction Corporation, Meriden, Conn., $15,063; F. E. Ellis, Melrose, $15,155; Coleman Bros., $15,742; L. C. Carchia, $15,873; Breglia & Chellilli, $16,218; A. D. Bridges Sons, Inc., Hazardville, Conn., $16,339; and W. N. Flynt, Mouson, $17,065.

✚PROVIDENCE, R. I.—The contract for constructing granolithic sidewalks during the year has been awarded to THOMAS H. ANGELL, at $1.3125 per sq. yd. Beattie & Cornell submitted a bid of $1.349 per sq. yd. on this work.

HARTFORD, CONN.—Bids will be received by the Board of Contract and Supply, Joseph Buths, Secy., until 11 a. m., April 17, for constructing approximately 600 ft. of granite curb and 2-ft. bluestone gutter on Elizabeth St.

*NEW LONDON, CONN.—Bids for constructing macadam roads, approximately 5,700 sq. yds., and cement walks, about 13,200 sq. ft., at Fort H. G. Wright, N. Y., will be received until 11 a. m., May 2, by Capt. F. T. Arnold, Constr. Q. M., U. S. A.

✚WATERBURY, CONN.—We are officially advised that the contract for improving highways at the Morris reservoir was awarded on April 4 to FRANK AURIO, Waterbury, at $10,834. The other bidders were: Frank Arrigoni, Middletown, Conn., $10,376; Joseph Mascetti & Irving B. Holly, Torrington, Conn., $11,386; Caesar A. Rossi, Torrington, $11,999; Joseph S. Barbara, Waterbury, $12,598; Edward McManus, Waterbury, $13,800. Noted on March 23.

*ALBANY, N. Y.—Bids will be received by the State Highway Commission, S. Percy Hooker, Chn., until May 1, for improving various highways. For particulars, see advertisement in this issue.

✚ARVERNE (Far Rockaway post-office), N. Y.—A contract for macadamizing the streets intersecting the property of the Somerville Realty Co., at Arverne, has been awarded to JOHN J. QUINAN, at $50,000.

BUFFALO, N. Y.—Bids will be received by Francis G. Ward, Comr. Pub. Wks., until April 14 for paving Northrup Pl., Prairie and Josephine Sts., Caldwell and Fell Alleys.

✚BUFFALO, N. Y.—The City Council has awarded a contract to the BARBER ASPHALT PAVING CO., 882 Ellicott Square, Buffalo, for paving South Division St., 32 ft. wide, with Trinidad pitch Lake asphalt, be-

tween Ellicott and Cedar Sts., and to the GERMAN ROCK ASPHALT & CEMENT CO., Morgan Bldg., Buffalo, for repaving the same street between Lord and Smith Sts., 28 ft. wide, with standard asphalt on concrete base.

BUFFALO, N. —The City Council has ordered the grading and macadamizing of Riverside Boulevard between Military Road and Ontario St. and directed the Board of Public Works to advertise for bids. Francis G. Ward is Comr. Pub. Wks.

•DUNKIRK, N. Y.—Bids will be received by the Common Council until 8 p. m., April 25, for paving and grading or macadamizing East and West Sixth Sts., Lion St., and King St., in Dunkirk, N. Y., according to plans and specifications. The approximate amount of work to be done is as follows: Lion St., 6,425 sq. yds.; Sixth St., 9,285 sq. yds.; King St., 11,620 sq. yds. R. H. Heppell is City Clk.

•HUDSON, N. Y.—Bids will be received until 10:30 a. m., May 2, by the Commission of Public Works of the city of Hudson, for furnishing material and labor necessary to relay approximately 5,400 lin. ft. of curbstone and to pave about 13,800 sq. yds. of street with vitrified brick. Plans and specifications may be seen at the office of William Wortman, City Clk., or M. J. O'Hara, City Engr.

NEW YORK, N. Y.—Bids will be received by Lawrence Gresser, Pres. Boro. Queens, until 11 a. m., April 24, for paving with sheet asphalt, grading, curbing, etc., in the Borough of Queens.

✚NEW YORK, N. Y.—We are officially advised that bids were received on April 4, as follows, for regulating and repaving with granite block pavements on a concrete foundation the roadway of Richmond Turnpike, from Brook St. to Cobra Ave.: JOHN E. DONOVAN, Port Richmond, $28,875 (awarded contract); Joseph Johnson & Sons, West New Brighton, $29,850; Uvalde Asphalt Paving Co., New York City, $30,247.

For regulating and repaving with vitrified brick pavements on a concrete foundation the roadway of Richmond Turnpike, from Brook St. to Cobra Ave.: JOHN E. DONOVAN, Port Richmond, $28,875 (awarded contract); Joseph Johnson & Sons, West New Brighton, $15,707; Dominick Bonnacci, 612 Degraw St., Brooklyn, N. Y. $15,213.

For regulating and repaving with vitrified brick, the gutters of Broadway, Port Richmond, from Richmond Terrace to south end of street: John E. Donovan, Port Richmond, $20,179; JOSEPH JOHNSON & SONS, West New Brighton, S. I., N. Y., $18,781 (awarded contract); Dominick Bonnacci, 612 Degraw St., Brooklyn, N. Y., $19,279; Cornelius Vanderbilt, $18,900; Thomas A. Carlin, $19,133.

For furnishing and delivering 8,000 tons of broken stone and screenings, to the MANHATTAN CONTRACT CO., at $1.53 per ton.

For furnishing and delivering 10,000 tons of broken stone and screenings: CLINTON POINT STONE CO., 115 Broadway, N. Y., $1.75 per ton in Dist. 2 (awarded contract); Jacob E. Conklin, $1.80 per ton; Joseph Johnson & Sons, $1.85 per ton; John E. Donovan, $1.89 per ton.

For furnishing and delivering 10,000 tons of broken stone and screenings in District 3: CLINTON POINT STONE CO., 115 Broadway, New York, $1.95 per ton (awarded contract); Jacob E. Conklin, $2 per ton; Joseph Johnson's Sons, $2.08 per ton.

NEW YORK, N. Y.—Bids have been received by Alfred E. Steers, Pres. Boro. Brooklyn, for street improvements as follows: For regulating and repaving with granite pavements on a concrete foundation the roadway of Fifth Ave., from Prospect Ave. to 25th St., J. J. Derkin, $27,832; McFarlane Contracting Co., $29,751; Richard L. Russell, $31,265 M. J. O'Hara, $30,082; H. J. Mullin, $30,695; Modern Pavement Co., $29,112; Newman & Carey Co., $32,325; John J. Guinan, $30,360; J. J. McLaughlin, $30,896; Morris F. Hickey Co., $31,126.

For regulating and repaving with asphalt on a concrete foundation the roadway of Washington Park, from Myrtle to De Kalb Ave., and Cumberland St., from Lafayette to Atlantic Ave.: Borough Asphalt Co., $28,228; Uvalde Contracting Co., $22,494; Cranford Co., 52 Ninth St., Brooklyn, N. Y., $20,740; Barber Asphalt Paving Co., $22,578; Brooklyn Alcatraz Asphalt Co., $21,614.

For regulating and repaving with asphalt on a concrete foundation the roadway of Eleventh St., from Second to Fourth Ave.: Uvalde Contracting Co., $10,313; Brooklyn Alcatraz Asphalt Co., $9,614; Cranford Co., 52 Ninth St., Brooklyn, N. Y., $9,126; Barber Asphalt Paving Co., $9,062.

For regulating and repaving with asphalt on a concrete foundation the roadway of Fulton St., from Vanderbilt Ave. to Marcy Ave.: Barber Asphalt Paving Co., $41,108; Uvalde Contracting Co., $44,487; Cranford Co., $40,339; Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave., Brooklyn, N. Y., $40,181.

✚NEW YORK, N. Y.—We are officially advised that the contract for regulating, grading, curbing, recurbing, flagging, reflagging and repaving with asphalt block on a concrete foundation Jackson Ave., from Thompson St. to Woodside Ave., Boro. of Queens, was awarded on April 4 to the BARBER ASPHALT PAVING CO., 30 Church St., New York, at $152,431. The Hastings Pavement Co., New York City, bid $154,213.

Bids for removing old granite blocks from the southerly side of Jackson Ave., between Woodside and Skillman Aves., First Ward, and repaving with these blocks and cement grouted joints in Jackson Ave., from Woodside Ave. to Trains Meadow Road, Second Ward, Boro. of Queens, were received on April 4 as follows: Clancey & Van Alst, $9,261; Modern Pavement Co., $10,076; Atlanta Contracting Co., $14,469; J. J. Durkin, $17,671; Reisner Construction Co., $14,341; Astoria Contracting Co., $10,621; J. F. O'Brien, $11,545; Green Contracting Co., $11,395; Hicks Johnson Co., $11,680; H. J. Mullin, $11,525; Pease Bros., $18,225; O'Grady Bros., $14,305.

NEW YORK, N. Y.—Bids will be received by Cyrus C. Miller, Pres. Boro. The Bronx, until 11 a. m., April 20, for paving, grading, regulating, etc., portions of various streets, and for furnishing 200,000 gallons of asphalt road oil and 50,000 gallons of tar road oil.

Bids will be received by George McAneny, Pres. Boro. Manhattan, until April 14 for paving as follows: With sheet asphalt, James, Doyers, Norfolk, Sheriff and 170th Sts., a total of 14,725 sq. yds.; with wood blocks, East Broadway, Lafayette St. and Second Ave., 2,990 sq. yds.; with granite block, Ann St., 410 sq. yds.; also for maintaining asphalt pavements on Broadway, 10,000 sq. yds.

•PLATTSBURG, N. Y.—Bids will be received by the Board of Public Works until 7.30 p. m., April 25, for furnishing all material and labor required for the construction of about 1,400 sq. yds. of asphalt block pavement on Margaret St.; also for about 1,400 sq. yds. o fvitrified brick paving on Dock St.; and about 1,500 sq. yds. of concrete pavement on such streets as the Board may designate. C. A. Barnard is City Clk.

•POUGHKEEPSIE, N. Y.—Bids will be received by the Board of Public Works, City of Poughkeepsie, until 4 p. m., April 20, for constructing 1,700 sq. yds. of creosoted wood block pavement. Address the Board of Public Works, R. J. Shields, Clk., for contract and specifications.

✚ROCHESTER, N. Y. — The contract for paving St. Paul St. has been awarded to WHITMORE, RAUBER & VICINUS, at $83,398. Noted on April 6.

WHITESBORO, N. Y.—The taxpayers at a special election have voted to spend $19,400 for paving parts of Westmoreland, Railroad, Clinton and Mohawk Sts. John C. Eberley, Jr., is Village Clk.

BAYONNE, N. J.—Bids will be received until 8 p. m., April 18, by the City Council for improving the south side of Ninth St. with flagging. The work will include 2,250 sq. ft. bluestone flagging. William C. Hamilton is City Clk.

✚NEWARK, N. J.—The following paving contracts were awarded by the Board of Street and Water Commissioners on April 6: South 19th St., from Clinton Ave. to Springfield Ave., with brick, NEWARK PAVING CO., at $20,160; Alyea St., from Ferry to Hensler St., with granite, JERSEY PAVING CORPORATION, at $11,049; Ave. B., from Emmet to Miller St., with granite, JERSEY PAVING CORPORATION, at $8,263.

Bids will be received by the Board of Street and Water Commissioners until 3.15 p. m., April 20, for paving the following streets: South 13th St., from Avon Ave. to Madison Ave., with bitulithic pavement; Ave. A., from Emmet to Poinier St., with oblong granite block pavement; Branford St., from Elizabeth to Frelinghuysen Ave., with brick pavement; also for grading, curbing and flagging as follows: Ave. C, from Emmet to Vanderpool St.; Mead St., from Silver to Cean Ave.; Woodside Ave., from 415 ft. south of Elwood Ave. to Delavan Ave., and for flagging the sidewalks on the east side of Mt. Pleasant Ave., from Oriental Pl. to Harvey St.

ORANGE, N. J.—Bids will be received by Daniel Coleman, Chn. Com. on Streets, until 8 p. m., April 17, for grading, macadamizing, paving and curbing a portion of Tremont Pl.

✚INGRAM (Pittsburg post-office), PA.—We are officially advised that the contract for paving a portion of Stanley St. has been awarded to the THOMAS CRONIN CO., Pittsburg, Pa., at $11,032. The other bidders were: Ridge Bros. Co., Pittsburg, $11,370; Nulen & Daly, Pittsburg, $11,578; Sawders Paving & Construction Co., Pittsburg, $11,259; F. J. Erbeck, Homestead, Pa., $11,167; Samuel Gamble, Carnegie, Pa., $11,263; R. D. Dickson, Sewickley, Pa., $12,075. Noted on March 23.

PHILADELPHIA, PA.—Bids will be received until April 17 for repairing various traction streets. George R. Stearns is Dir. Pub. Ser.

✚YOUNGWOOD, PA.—A contract for paving the main street in Youngwood has been awarded to JAMES NIXON, of Clairton, Pa., at approximately $30,000.

✚DENTON, MD.—The Commissioners of Talbot and Caroline Counties have awarded a contract to the YORK BRIDGE CO., York, Pa., at $28,969, for grading and macadamizing .83 mile of Dover Bridge Road, and for constructing a 70-ft. drawbridge over the Choptank River.

NORFOLK, VA.—The lowest bid received for paving several city streets was submitted by WARREN & QUINLAN, Syracuse, N. Y., at $191,260.

SALISBURY, N. C.—Bids will be received by Capt. H. L. Fetters, Q. M., U. S. A., Washington, D. C., until April 18, for resurfacing the roadway at the Salisbury National Cemetery.

✚VALDOSTA, GA.—A contract for constructing a graded highway 30 ft. wide from Adel to the Lowndes County line, a distance of about ten miles, has been awarded to H. E. WARWICK, of Adel.

•JACKSONVILLE, FLA.—Bids will be received by the Board of Commissioners of Duval County, at their office in the Court House, at Jacksonville, until 10 a. m., May 3, for the construction of approximately 13,000 sq. yds. of asphalt macadam resurfacing, from the city limits of South Jacksonville, on Atlantic Boulevard for a distance of 1¼ miles, more or less. Specifications and other data can be had upon application to Gail L. Barnerd, County Engr. C. W. Ellis is Chn. of Comrs.

✚JASPER, FLA.—We are officially advised that the contract for grading 30 miles of road has been awarded to the JASPER LAND & IMPROVEMENT CO., at $300 a mile, a total of $9,000.

MEMPHIS, TENN.—Bids will be received until May 16 for street work to include 5.1 miles gravel paving, 3.9 miles tar macadam, 1.4 miles vitrified brick, 2.9 miles asphalt, wood block, or bitulithic, and half a mile of old stone, a total of 14 miles. George C. Love is Comr. Dept. Sts. and Bridges.

LOUISVILLE, KY.—Bids will be received by the Board of Public Works until April 17, for paving Shelby St., Jacob and Garland Aves., with brick or vitrified block. H. C. Nelson is City Clerk, and Caldwell Norton, Supt. Paving.

•MOUNT STERLING, KY.—Bids will be received by the City of Mount Sterling until 7.30 p. m., April 20, for paving approximately 12,000 sq. yds. of street with vitrified blocks and concrete base. H. M. Ringo is City Clk.

BOWLING GREEN, OHIO.—Bids will be received by the Joint Board of Commissioners of Wood and Sandusky Counties until 1 p. m., April 18, for grading, draining and macadamizing the J. R. Chamblin Road, five miles long. George W. Bloom is Audr. Sandusky County, and F. W. Toan, Audr., Wood County. E. F. Metzger is Engr.

CINCINNATI, OHIO.—All bids received for paving Ludlow Ave., from Clifton to Brookline Ave., have been rejected, and the work will be readvertised.

Plans have been prepared for widening the entrance to Burnet Woods Park. The work is estimated at $21,178. F. H. Shipley is City Engr.

Bids will be received by the Board of Commissioners of Hamilton County until noon, May 5, for improving Carthage Ave. Stanley Struble is Pres., and Fred Dreihs, Clk. of Bd.

FOSTORIA, OHIO.—Bids will be received by John W. Shaw, Clk. Jackson Township, until noon, April 14, for grading and macadamizing the Buckley Roads and others.

GENEVA, OHIO.—Bids will be received until noon, April 28, by the Village Council for improving portions of Main St. and Broadway by grading, draining, curbing with stone, and paving with brick on a concrete foundation.

✚NORWALK, OHIO.—Bids for building 9½ miles of pike in Norwich Township, Huron County, were received on April 4th, as follows: TAYLOR & BRIGGS, Findlay, Ohio, $41,990 (awarded contract); Starr, Harmon & Witham, Deshler, Ohio, $42,539; F. L. Rice & Sons, Shelby, Ohio, $42,740.

TOLEDO, OHIO.—Bids will be received by the Board of Public Service, F. Shane, Secy., until April 18, for paving East Broadway, and an alley with vitrified paving block on a concrete foundation; also, for repaving Huron St. with sheet asphalt, asphalt blocks, creosoted wood blocks or other asphaltic concrete, laid on the present stone pavement.

TROY, OHIO.—Bids will be received by C. B. Hatfield, Dir. Pub. Ser., until noon, April 19, for paving West Main St., from the Erie Canal Bridge to Elm St., approximately 3,230 sq. yds.

BEDFORD, IND.—We are officially advised that all bids received on April 4 for constructing roads Nos. 1 and 2 have been rejected. New bids will be received until May 2.

✚BLOOMFIELD, IND.—The contracts for the construction of two macadamized roads in Greene County have been awarded to GAGEBY & CUNNINGHAM, Linton, Ind., at $3,365 and $13,730.

✚BLOOMINGTON, IND.—A contract for the construction of a stone road in Monroe County has been let to McCORMACK & RODGERS, Smithville, Ind., at $5,338.

✚BROWNSTOWN, IND.—The Commissioners of Jackson County have awarded a contract for the construction of a gravel road in Owen Township to SAMUEL SMALLWOOD, at $5,099.

GREENCASTLE, IND.—Bids are being received for the construction of 10,000 sq. yds. of asphalt macadam paving, estimated at $26,000. A. A. Lane is City Engr., and S. E. Sayer, City Clk.

✚HARTFORD CITY, IND.—The contract for constructing the Burns macadam road in Harrison Township has been awarded to J. F. BUCKLEY, Montpelier, Ohio, at $9,291. The other bidders were: John Burns, $10,200; S. P. Willman, $9,992; Wright Bros., $11,448; Clamme Bros., $9,973. The road is 2¾ miles long and the estimated cost was $12,085.

INDIANAPOLIS, IND.—The Board of Public Works has ordered nineteen streets and alleys improved by grading, paving, curbing, resurfacing, etc. Bids will be asked for this work as soon as plans and specifications can be completed.

✚KOKOMO, IND.—We are officially advised that contracts for constructing three gravel roads in Munroe Township have been awarded as follows: F. HAMBERT, $2,650; H. STEWART, $7,768; MACKAY, DRUCKE, MILLER & CO., $7,949. Noted on March 23.

✚LAFAYETTE, IND. — The Commissioners of Tippecanoe County have awarded a contract for two gravel roads to MAHONEY & ALLEN, Green Castle, Ind., at $4,840 and $1,900.

✚MONROE, IND.—Contracts for the construction of two macadamized roads in Wabash and St. Mary's Townships have been awarded to ELI ENGLE & SON, Monroe, at $6,198 and $6,370.

✚MUNCIE, IND.—We are officially advised that a contract for constructing a brick road in Center Township was awarded on April 5 to JOHN B. GUBBINS, Muncie.

✚WABASH, IND.—We are officially advised that the contract for constructing a gravel road in Chester Township was awarded on April 7 to KELLY & HECK, at $11,175. Noted on March 23.

We are officially advised that four road contracts will be awarded on May 2. J. P. Noftzger is Audr., Wabash County.

PORTLAND, IND.—The Board of Commissioners of Jay County have sold bonds for the construction of the G. S. Pyle gravel road in Bear Creek Township. Bids will be asked after April 17.

PRINCETON, IND.—The Commissioners of Gibson County are preparing to ask for bids for the construction of three gravel roads in Montgomery Township. The appropriation is $30,000.

✚SULLIVAN, IND.—The [illegible] Sullivan County have awar[illegible] for two stone roads in Ca[illegible] E. EVERHART, Sullivan. [illegible] GAN BROTHERS, Brazil, [illegible] $8,465 respectively.

VERSAILLES, IND.—Bids [illegible] until 1 p. m., May 1, by t[illegible] of Ripley County for the [illegible] 11,370 lin. ft. of macadam [illegible] Township. Nicholas Voltz [illegible]

✚ADRIAN, MICH.—We a[illegible] vised that the contract fo[illegible] labor and material required [illegible] Maumee St. with Townsend [illegible] awarded to WILLIAM F. [illegible] at $21,462. Noted on Marc[illegible]

•BESSEMER, MICH.—Bids [illegible] by the Board of Road Comm[illegible] gebic County at their offic[illegible] until noon, April 22, for gra[illegible] miles of road between Wake[illegible] ham. Specifications, plans [illegible] on file at the engineer's offic[illegible] building. G. S. Barber is [illegible] Harper, Engr.

✚DETROIT, MICH.—Contra[illegible] with cedar blocks have been [illegible] lows: THOMAS E. CURRIE [illegible] Bldg., Detroit, for paving Bea[illegible] tion 1, from Kercheval Ave. t[illegible] $15,565, and for grading and p[illegible] St., Secton 2, from Berlin St [illegible] at $7,245; to J. A. MERCIER [illegible] Bldg., for paving Ellery St., [illegible] St., to Gratiot Ave., at $24,6[illegible] ing Lawrence Ave., from Sc[illegible] Hamilton Boulevard, at $11,84[illegible] ATH & SON, 301 Penobscot Bldg [illegible] Fort St., from Dearborn Ave. t[illegible] bridge, at $17,642.

LUDINGTON, MICH.—Bids wil[illegible] by the Common Council until A[illegible] paving Robert, Danaher and M[illegible] Dean Thompson is City Clk.

MORENCI, MICH.—Bids will [illegible] by C. R. Kellogg, Village Clk [illegible] 21, for paving portions of East [illegible] Main and North Sts. with brick

DANVILLE, ILL.—Bids will [illegible] until 7 p. m., April 25, for the [illegible] of 11,000 sq. yds. of bituminous [illegible] pavement and 5,000 lin. ft. of con[illegible] on Logan Ave. Walter E. Wi[illegible] Engr.

FULTON, WIS.—We are officially informed that this city will soon construct [illegible] sq. yds. of macadam with binder and [illegible] yds. of brick paving, at an approximate cost of $40,000. Bids will be advertised about April 15. P. D. Thumond is City Engr., and W. R. Pemberton, City Clk.

✚RACINE, WIS.—The contract for paving Erie and Dodge Sts. has been awarded to the McCUGO-BULLOCK CO., Waukegan, Wis., at $14,626.

✚CROOKSTON, MINN. — We are officially advised that bids for constructing 31,372 sq. yds. of asphalt macadam pavement were received on April 4 as follows: P. McMONALD, Duluth, Minn., $42,000 (awarded contract); Central Westrumite Paving Co., Whiting, Ind., $42,500. Noted on March 23.

✚McPHERSON, KAN.—We are officially advised that the contract for constructing 19,000 sq. yds. of paving and 6,100 lin. ft. of curb and gutter has been awarded to THOMAS MARTIN & GARDNER, Fort Scott, Kan., at $46,003. There were 16 bidders on this work. Noted on March 23.

WEBB CITY, MO.—Bids will be received by A. J. McKenzie, City Engr., until April 17, for the construction of 4,718 lin. ft. of concrete curb and gutter and 8,266 sq. yds of asphalt macadam pavement.

AUSTIN, TEX.—Bids will be received until April 15 for approximately 45,700 sq. yds of vitrified brick, wood blocks and bitulithic pavement.

✚DALLAS, TEX.—The City Commissioners awarded paving contracts amounting to $100,000 on March 31, as follows: For paving South Boulevard, from Ervay to Holmes St. and First Ave., from Parry to Santa Fe St., to the TEXAS BITULITHIC CO., Dallas, at $2.30 per sq. yd. for bitulithic paving on a concrete foundation; for paving Bryan St., from Pacific to St. Joseph St., to the CREOSOTED WOOD BLOCK PAVING CO., at $2.70 per sq. yd.

GEORGETOWN, TEX.—Bonds for $100,000 were voted on March 30 for constructing and improving macadamized roads.

GREENVILLE, TEX.—Bids are being received for paving. Estimated cost, $300,000. J. H. Rush is City Engr.

DURANT, OKLA.—Bids will be received until April 18 for the construction of about 4,800 sq. yds. of asphalt macadam pavement, approximate cost, $11,000. W. S. Shannon is City Clk.

✚HUGO, OKLA.—The contract for paving about two miles of residence streets with road asphalt has been awarded by the City Council to F. R. STONE, Lima, Ohio.

A contract will soon be awarded for paving the business section of Hugo with either brick or creosoted pine blocks.

BOISE, IDAHO.—Plans are being prepared for the expenditure of $20,000 on the Fort Hall Road, five miles in length, through this State to Yellowstone. Address the State Engineer.

SALT LAKE CITY, UTAH.—Bids will be received by H. G. McMillan, Chn. Board Pub. Works, until April 21, for curbing and paving in Paving Extension No. 64.

KELSO, WASH.—The City Council has passed a resolution providing for the improvement of portions of First, Maple, Second, Academy Sts., etc., with pavements according to plans filed in office of M. J. Lord, City Clk. The estimated cost is $78,[illegible].

OLYMPIA, WASH.—Bids will be received by I. N. Holmes, City Clk., until April 19, for paving with asphalt or other suitable material Main St., from Seventh to [illegible] Sts., about 20,000 sq. yds. The estimated cost is $71,000.

✚PORTLAND, ORE.—A contract for constructing concrete sidewalks on East 42d Ave., has been awarded to the BECHILL BROS., at $0.189.

LOS ANGELES, CAL.—Bids will be received by the Commissioners of Los Angeles County until April 16 for constructing a foothill boulevard from Azusa to Glendora.

✚LOS ANGELES, CAL.—The following contracts have been awarded by the Board of Public Works: For improving Selma Ave., between Gower St. and Highland Ave., to A. W. BEESEMYER, at $2.03 per lin. ft. for grading and graveling; 5 cts. per sq. ft. for regrading and regraveling and reoiling; 32 cts. per lin. ft. for cement gutters; 30 cts. per sq. ft. for cement curb; 15½ cts. per sq. ft. for vitrified block gutter; aggregate amount, $18,627.

For improving Kenwood St., from Adams to Second St., to FAIRCHILD, GILMORE, WILTON CO., at 18 cts. per sq. ft. for asphalt paving; 30 cts. per lin. ft. for cement curb; 28 cts. per sq. ft. for vitrified block gutter; aggregate amount, $9,430.

FORT WILLIAM, ONT.—Bids will be received by the City Clerk, until 5 p. m., May 4, for paving with asphalt block, sheet asphalt or bitulithic, the following streets: May St., approximately 5,700 sq. yds.; Brodie St., approximately 8,400 sq. yds. Plans, specifications and forms of tender may be obtained at the office of John Wilson, City Engr.

MANUFACTURING PLANTS.

(✚*Denotes a contract awarded.*)

✚HOLYOKE, MASS.—According to reports, William Skinner & Sons will enlarge their silk manufacturing plant by erecting a mill building between their new mill on the first-level canal off Appleton St. and the new part of the former Whitcomb Building on Dwight St., making new mill buildings from Appleton to Dwight. The proposed structure will be of brick, four stories high and 240 ft. long, similar in construction to their Appleton St. mill, and will be 60 ft. in width. Work on tearing down the old building will begin at once. The contract has been awarded to CASPAR RANGER, of Holyoke. This will call for several hundred new operatives. The building will cost in the neighborhood of $100,000.

EAST BRIDGEPORT (Bridgeport post-office), CONN.—The Salts Textile Co. is about to build a 1-story addition for the manufacture of silks, etc. It will be 75 × 129 ft.

BUFFALO, N. Y.—Lansing, Bly & Lyman, Archs., Prudential Bldg., are preparing plans for a foundry and an office building, of structural steel and concrete, to be built at Elmwood Ave. and the Erie R. R. by the Atlas Steel Castings Co. George H. Chisholm, Prudential Bldg., is Pres.

✚J. H. TILDEN & CO., 14 Henry St., have received the contract for the erection of a 1-story brick addition, 55 × 204 ft., to the plant of the Republic Metalware Co., Republic and Alabama Sts. and the Erie R. R., from plans of Colson & Hudson, Archs., Dun Bldg. Noted on March 16.

✚BUFFALO, N. Y.—The Buffalo Machinery Co., C. A. Svenson, Pres., 352 West Ave., has let contract to CHRISTIAN FLIERL, 1366 Genesee St., for the construction of a 3-story brick addition to its factory at West and Forest Aves.

The Huebner-Bleistein Patents Co., Lithographers, Sidway Bldg., Main and Goodell Sts., is having plans prepared for a lithographing plant.

CORNING N. Y.—The Corning Glass Works, of which George B. Hollister is Mgr., is having plans prepared for a 3 and 4-story addition to its plant. Estimated cost, $90,000.

ILION, N. Y.—Linn M. Kinne, Arch., of Utica, has completed plans and is receiving bids for a 2-story addition to the plant of the Remington Typewriter Co., of brick and mill construction, and for a 2-story and basement office building, 40 × 60 ft., of reinforced concrete.

LOCKPORT, N. Y.—The Thompson Milling Co., recently reorganized, is having plans prepared for the enlargement of its flouring mill plant on Market St.

The Simonds Mfg. Co. will add to its saw and edge tool factory on Ohio St. during the early summer a factory building to cost $80,000.

The United Indurated Fibre Co. has plans in preparation for extensive additions to its manufacturing plant on Mill St., on which construction will be commenced this spring.

LOCKPORT, N. Y.—The Upson Co., of which Charles A. Upson is Pres., is having plans prepared for a factory building, for which a site has been secured in this city. Cost, $30,000.

NIAGARA FALLS, N. Y.—The Wagstaffe Co. Ltd., of Hamilton, Ont., has purchased a site and will erect an extensive plant for fruit preserving in the north end Power District. James Wagstaffe, 7 Perry St., Buffalo, is Pres.

✚NORTH TONAWANDA, N. Y.—The contract for the structural steel work and for the traveling crane runway for the addition to the plant of the Buffalo Bolt Co. has been awarded to the WURTZ & SON IRON WORKS CO. Other details noted last week.

ROCHESTER, N. Y.—The Rochester Railway & Light Co. is planning the erection of a plant here for the manufacture of concrete poles. Thomas H. Yawger is Supt.

✚PATERSON, N. J.—We are officially advised that bids will be received about May 15 by Lee & Hewitt, Archs. apd Engrs., 1123 Broadway, New York, for the construction of a 1-story and tower addition, 60 × 100 ft., to the boiler shop of the Leslie-Elliott Co., Paterson. It will be of frame construction throughout. The contract for furnishing a Bull tower crane has been given to JOSEPH J. JEYERSON & SON, 30 Church st., New York.

CONFLUENCE, PA.—A chair factory is contemplated here by W. R. Dean, it is stated.

ERIE, PA.—The H. N. Thayer Co. will build a 3-story addition, 84 × 108 ft., to its factory here.

✚The Lake Erie Foundry Co. has awarded the contract for the erection of a 2-story addition, 50 × 100 ft., to be built to its plant to C. C. HAYES, of Erie.

✚MOUNT OLIVER, PA.—The contract to erect an addition to the plant of the Lincoln Laundry Co. here has been awarded to MURPHY BROS., Sixth Ave. and Wood St., Pittsburg. It will be of brick construction, and will cost about $20,000.

PHILADELPHIA, PA.—John T. Bailey & Co., bags, rope and twine manufacturers, are having plans prepared for a 4-story warehouse, 75 × 300 ft., on Tasker St., between Water St. and Delaware Ave., recently purchased by them. It will be of brick and reinforced concrete.

✚The PHILIP HAIBACH CONTRACTING CO., 26th and Thompson Sts., has been awarded the contract for erecting a 2-story bottling house, 80 × 52 ft., on Lippincott St., east of 22d St., for J. Hornung. Cost, $21,000.

✚The WILLIAM STEELE & SONS CO., 1600 Arch St., has been granted a permit for the erection of a 3-story factory, 129 × 129 ft., at the northwest corner of Gordon and Gaul Sts., for the Eagle Works. The cost will be $34,000.

✚WASHINGTON, PA.—Ground will soon be broken by the Manufacturers' Light & Heat Co. for the erection of a 3-story brick building at the rear of the lot on East Wheeling St., now occupied by the offices of the company, which will be used as a machine shop and for general repair work. The contract for the work has been given to WALKER & SLATER, and the building will be pushed to completion as rapidly as possible. It will be 40 × 80 ft., three stories high, constructed of brick, and as nearly fireproof as it is possible to have it. M. B. Layton is Asst. Gen. Mgr., and H. A. Rogers is Supt.

✚BALTIMORE, MD.—A permit has been granted Mrs. Hannah E. Kriel to erect a 3-story warehouse in the rear of her pork packing plant at 5 and 7 West Henriettta St. It will be 25.4 × 73.10 ft., and will have a slag roof. The contract has been awarded to HENRY PIERSON & SONS, 1000 Olive St. Cost, $8,000.

CHASE CITY, VA.—T. G. Boswell contemplates establishing an ice plant of five to eight tons capacity. A company will be organized. A coal and wood yard will be operated in connection, it is stated.

NORFOLK, VA.—The Union Cotton Bagging Corporation, of Norfolk, has been chartered, with a capital stock of $300,000, for the purpose of acquiring and continuing the plant of the Margolius Co. This new corporation has effected organization and has announced that it intends to establish a branch at Spartanberg, S. C. It will soon probably arrange for purchasing picker, garnetting and mixing machinery for this Spartanberg plant. The officers elected are as follows: R. Margolius, Pres.; Lawrence S. Holt, Jr., of Burlington, N. C., Vice-Pres.; J. Harper Erwin, Jr., of Durham, N. C., Secy.-Treas.

MORGANTON, N. C.—Plans are being formulated for the organization of a company to establish a knitting mill at Morganton by installing knitting machinery in the plant of the Catawba Valley Canning Co. A capital stock of $15,000 is proposed, and more than half of that amount has been subscribed. Those interested in promoting the enterprise include R. B. Moore, T. L. Sigmon and M. R. Garrou, of the Waldensian Hosiery Mills. The new plant is contemplated for hosiery manufacture.

ROCKINGHAM, N. C.—M. I. Hinson has bought several acres of land in Rockingham, and he will within the next few weeks contract for building and machinery for six cotton gins, with a capacity of approximately 90 bales per day. He will also begin at once the erection of a fertilizer mixing plant, with a capacity of 100 tons per day. It is his intention to build a cotton-seed-oil mill on this same tract of land early in the fall.

INMAN, S. C.—The Inman Oil Mill Co. has been organized, with a capital stock of $25,000, for the purpose of erecting a cotton-seed-oil plant.

SPARTANBERG, S. C.—See item under Norfolk, Va.

✚LAGRANGE, GA.—The contract for erecting the buildings for the Dunson Mills, of which J. E. Dunson is Pres., has been awarded to the PIKE BROS. LUMBER CO., of Lagrange, and calls for completing the structure by September. It includes the main structure that will be two stories high, with a 1-story weave shed, 572 × 132 ft., of brick construction. In this building will be installed the textile machinery, including 20,000 spindles, accompanying carding and picking apparatus, warpers, 400 to 500 looms, varying from 40 to 72 ins. wide, etc., all arranged for the daily production of about 14,000 lbs. of cloth. All the machinery contracts have been awarded, and they amount to about $300,000. The main mill mentioned will cost about $90,000. A steam plant of 1,200 HP., costing about $25,000, will furnish power for the plant, and it will include a 1,500-HP. cross-compound steam engine, built by the C. & G. Cooper Co., of Mount Vernon, Ohio, and boilers and accompanying apparatus built by the R. D. Cole Mfg. Co., of Newman, Ga. Besides the machinery contracts above mentioned, the company has placed contracts as follows: For warpers and looms, the DRAPER CO., of Hopedale, Mass.; spindles and carding machinery, the WHITIN MACHINE WORKS, of Whitinsville, Mass.; picking machinery, the KITSON MACHINE SHOPS, of Lowell, Mass. The Dunson Co. is capitalized at $500,000, and expects to have the entire plant and village completed by next January, with 225 operatives employed. Joseph E. Sirrine, of Greenville, S. C., is the Arch. and Engr.

ROME, GA.—The plant of the Acme Lumber & Mfg. Co., which was recently destroyed by fire, will be rebuilt, it is reported. The machinery to be installed will cost about $10,000. J. H. Taylor is Pres.

MOBILE, ALA.—The Perfection Mattress Co., of Birmingham, contemplates establishing a branch plant in Mobile, it is stated.

NEW ORLEANS, LA.—The Atlanta Motor Car Co., manufacturers of the "White Star" car, a Georgia corporation, plans to establish a plant in New Orleans. The capital stock is $500,000. A desirable site has been acquired for the automobile manufactory and the plant will involve an initial outlay of $200,000 for grounds, buildings, etc. The present officers and directors of the company are as follows: Clarence Houston, Pres.; N. P. Moss, Vice-Pres.; W. P. Mills, Secy. and Treas.; F. L. Sawyer, Gen. Mgr.; Peter F. Clarke, A. P. Perrin and Jos Mauras.

CINCINNATI, OHIO.—The Cincinnati Steel Castings Co., now on Kenyon Ave. in the West End, will build a new plant on the north side of Queens City Ave. about 100 ft. west of Spring Grove Ave., near Brighton, plans for which have been completed by Martin Fisher, Arch., 2156 Central Ave. The improvement will be of fireproof construction. Its dimensions will be 75 × 140 ft. and two stories high, brick and steel being the materials specified for its construction.

CINCINNATI, OHIO.—The Moerlein Brewing Co. has been granted a permit to erect a $75,000 brick and concrete bottling plant on Elm St.

PORT CLINTON, OHIO.—The Wolfgram Marble Co., recently incorporated with a capital of $300,000, proposes to build a large plant just east of the city. The company will manufacture cement products, but their principal output will be artificial marble. The latter is the invention of Frank Wolfgram, of Chicago, who is at the head of the project. Mrs. F. S. Culver and W. E. Hughes are reported to be interested. Between 300 and 400 men will be employed.

BRAZIL, IND.—Mac Johnson, Arch., of Brazil, has been employed to prepare the plans and let the contract for the construction of a factory for Mullen & Blackledge. It will be a 3-story and basement structure of brick. The company will construct three other buildings later.

FULTON, IND. The Fulton Cooperative Creamery Co., has been incorporated to build and equip a creamery plant. Capital, $5,000. D. C. Reeder, V. J. Powell and W. H. Gray are Dirs.

INDIANAPOLIS, IND.—See item under Miscellaneous Contracts: Powder Magazines, Indianapolis, Ind.

KNOX, IND. The Knox Metal Wheel Co. is preparing to let a contract for the erection of an extensive factory building on the site of the one recently destroyed by fire.

✚LOGANSPORT, IND.—The contract to erect a foundry building for the Radiator Co., has been awarded to HARRY BARNES. The proposed structure will be 110 × 100 ft., and will be the chief of the extensive improvements that will be made at the Radiator works, by which the present capacity will be tripled. The cost of the buildings, machinery and equipment will be in the neighborhood of $10,000, it is reported.

WABASH, IND.—The Servia Motor Car Co. has been incorporated with a capital of $500,000. The company proposes to establish a plant for the manufacture of autos and auto parts. Charles S. Reiman is Pres.

DETROIT, MICH.—The Piedmont Graphite Co., of Atlanta, Ga., has secured a site at 1100 Jefferson Ave. West, Detroit, and will immediately install some new machinery, and remove its plant to the new location. Wm. L. Reinke, 1100 Jefferson Ave. West, is the local manager of the concern.

✚Varney & Varney, Palmer Bldg., have awarded the following contracts for the 1-story factory building, 112 × 163 ft. for the Detroit Range Boiler Co., of which A. M. Parker, 607 24th St., is Secy.; Iron work, to T. B. RAYL & CO., 114 Woodward Ave.; carpentry, F. A. ALBRECHT, 55 Moran St.; composition roofing, HOWIE ROOFING CO., 170 Fourth Ave.; painting, R. A. DUBOIS, 25 Reed Pl.

✚Mildner & Eisen, Hammond Bldg., have awarded the structural iron contract to the DONOVAN WIRE & IRON WORKS, of Toledo, Ohio, for the 2-story engine house, 100 × 32 ft., for the Kayser & Schmidt Brewing Co., 407 Wilkins St.

GRAND RAPIDS, MICH.—Robinson & Campau, 449 Houseman Block, are preparing plans for a 2-story and basement fur dressing plant, 50 × 75 ft., for Brown & Tehler, West Bridge and West Front Sts., Grand Rapids.

The same architects have about completed plans for a 4-story and basement factory and power house, 50 × 100 ft., for the A. E. Brooks Candy Co., 86 South Ionia St. Cost, $30,000. Estimates are soon to be received.

BLOOMINGTON, ILL.—Plans have been completed for the construction of an artificial ice plant and cold storage warehouses for the Behrends Ice & Fuel Co. at Washington and Apple Sts. and it is expected that the contract will soon be let. It will be of brick construction and 100 × 170 ft. Cost, $100,000. Frank Gobel is Pres. J. A. Wickler is interested.

CHICAGO, ILL.—The Fred Miller Brewing Co., of Milwaukee, Wis., has purchased a site at Erie and Kingsbury Sts., for $72,000, and will erect a building for its Chicago branch to supplant the present warehouse and storage at Western and Grand Aves. Plans are now being prepared and it is planned to begin work about May 15.

According to reports, F. W. McKinney, of McKinney, Hodge & Manss, is about to begin the erection of two warehouse buildings at the southeast corner of Ashland Ave. and 35th St. The buildings will cost about $350,000. The larger will have a frontage of 350 ft. on Ashland Ave., and 106 ft. deep to the tracks of the Chicago Junction Railway, while the smaller will front 75 ft. on 35th St., with a depth of 122 ft., with switch on east side. Both will be of heavy mill construction. They will be so constructed as to provide office, warehouse and display room.

MANITWOC, WIS.—At a special meeting the Executive Board of the Aluminum Goods Mfg. Co., of America, it was voted to proceed with the erection of additions and improvements to the Manitowoc plant at a cost of approximately $30,000. The work will include a 4-story brick building, and a power house. George Vits, of Manitowoc, is Pres.

MILWAUKEE, WIS.—The International Harvester Co. will build a $200,000 machine shop on Park St., between 14th and 15th Aves., doing its own work. The building will be 203 × 145 ft., U shaped, six stories high and of steel and brick construction.

Kirchhoff & Rose, Archs., Majestic Bldg., are preparing plans and specifications for a factory for the Minn Billiard Co., to be erected at 1350 Buffum St., and to cost approximately $50,000. It will be of reinforced concrete construction. Plans will be ready for bids about April 20. Bernhard Minn, is Pres.

✚NEENAH, WIS.—The Lakeside Paper Co., has awarded contracts for power and working equipment in its new $1,000,000 plant as follows: Three 350 HP. boilers, 185 lb. pressure, LYONS BOILER WORKS, of DePere, Wis.; beaters and washers, VALLEY IRON WORKS, Appleton, Wis.; paper making machinery, SMITH & WINCHESTER CO., South Windham, Conn.; one 750 HP. and one 300 HP. engine, NORDBERG MFG. CO., Milwaukee.

✚CHAMBERLAIN, S. DAK.—The DES MOINES BRIDGE & IRON CO. of Des Moines, Iowa, has been awarded the contract to furnish and erect 50 car loads of steel for the plant of the Dakota Portland Cement Co., now being erected at Chamberlain. The contract price is $65,000.

ST. LOUIS, MO.—Newspaper advices are to the effect that the Fulton Iron Works will more than double the capacity of its plant.

The Stephen J. Gavin Lumber Co., incorporated recently with a capital stock of $50,000, fully paid, will build two planing mills, one at Spring and Cass Aves., the other at 6400 Easton Ave., Wellston, on property now operated as lumber yards by Stephen J. Gavin. Mr. Gavin announces that he will transfer title to the ground to the company and that the mills will be completed within 30 or 90 days, at a cost of $25,000. Both will make sash, doors and blinds. The Wellston site has about ten acres and track connections with the Terminal Belt Line, giving capacity for 75 cars on sidings. The ground at Spring and Cass Aves. covers three-fourths of a block. Mr. Gavin is Vice Pres. of the St. Louis Lumber Co., but his new enterprise is independent of that concern, according to reports.

BRECKENRIDGE, TEX.—The Breckenridge Mill & Gin Co., will install a 5-ton ice plant here.

BRENHAM, TEX.—An electrically operated cotton gin will be installed here by William Seidel.

FERRIS, TEX.—The Farmers' Union Gin Co., will erect a 2-press cotton-seed oil mill here.

HOUSTON, TEX.—The Guatemala Coffee Co., of Houston, has purchased a site for its proposed coffee roasting plant in this city and will soon have plans prepared for the building, which will be three stories high, of brick construction. The roasting plant will have a daily capacity of 250 bags of coffee. A modern electric-gas roasting apparatus will be installed. I. Rosenberg, of Houston, is Pres.

SAN ANGELO, TEX.—The erection of the proposed flour mill of the San Angelo Milling Co., will soon be started. It will cost about $30,000 and will have a daily capacity of 200 bbls. of flour.

SAN ANTONIO, TEX.—The George D. Mayo Machine Co., of Laconia, N. H., contemplates establishing a knit goods factory at San Antonio.

SAN ANTONIO, TEX.—The proposition of establishing a furniture factory here is under consideration by H. L. Breinig. He has taken the matter up with the Chamber of Commerce.

SUTHERLAND SPRINGS, TEX.—The Hygea Mineral Water Co., will install bottling works at this place. It was recently organized with a capital stock of $30,000, the incorporators being W. E. Nelson and H. P. Nelson of San Antonio, and Judson Hume of Sutherland Springs.

✚STOWELL, TEX.—The Elmen Realty Co. of Houston will install a cotton gin here. The contract has been awarded to J. M. NEIL, of Houston.

ROSWELL, N. MEX.—G. A. Morris and T. S. Jackson will rebuild their ice plant at this place that was recently destroyed by fire.

TWIN FALLS, IDAHO.—The Twin Falls Mill & Elevator Co., plans to erect a 600 bbl. flour mill on land adjoining its present elevator. It will be of concrete, brick and steel. L. I. Breckenridge is Mgr. Cost, $25,000.

KENTON (Portland post-office), ORE.—Plans are being drawn for the building for the United States Cashier Co., which recently purchased 4½ acres near Kenton. The company will invest $40,000. The contract for the factory will be let as soon as the plans have been completed.

KENNEWICK, WASH.—The Kennewick Packing Co., which operates meat markets here and in Pasco, is soon to erect a packing house on the Putnam tract. The plant will cost from $15,000 to $30,000.

COACHELLA, CAL.—The Coachella Valley Ice and Electric Co., is planning the erection of an ice plant and an electric light and power plant to supply this and surrounding towns. W. F. Holt, of Holtville, is Pres. Bids for the work will be called for soon.

LOS ANGELES, CAL.—The Brassington-Stongham Co., manufacturers of pumps and machinery, will establish a machine shop for general work and for manufacturing Grindrod pumps at 247 Central Ave.

LOS ANGELES, CAL.—A building permit has been issued for the erection of 1-story frame factory building to cost $30,000 for the Union Lithograph Co. It will be 140 × 162 ft. and located at 2038 East Seventh St.

The Bailey & Smitz Co., has been granted a building permit for the erection of a 3-story brick upholstery factory building on Seventh St. Cost, $35,000.

RIVERSIDE, CAL.—The Riverside Steel Foundry Co., has been incorporated here, and has taken out a building permit for the erection of a factory, 70 × 30 ft. on North Main St. It will be the first of a number to be erected. J. J. Evans is Mgr.

SAN PEDRO, CAL.—Charles E. Shattuck, Arch., Mason Bldg., Los Angeles, is preparing plans for a 2-story brick laundry building to be erected at San Pedro for the Golden Gate Laundry Co. The main portion will be 100 × 100 ft. with wings, aggregating 12,000 sq. ft. of floor space.

LAKEFIELD, ONT.—It is announced that the Canada Cement Co., of which F. P. Jones, of Montreal, is Gen. Mgr., will double its plant here.

SAULT STE. MARIE, ONT.—It is announced that the Lake Superior Paper & Chemical Co. will spend about $2,000,000 in improvements to the pulp and paper mill recently purchased from the Lake Superior Corporation. T. J. Drummond is Pres.

WINNIPEG, MAN.—F. P. Jones, Gen. Mgr. of the Canada Cement Co., Montreal, has announced that a cement plant of 400,000 bbls. per year capacity will be established at Winnipeg as soon as possible.

NEW WESTMINSTER, B. C.—Robert E. Kennedy, of New Westminster, Director of Western Steel Corporation, announced at Toronto on April 8 that the company has purchased 2,000 acres with a 17,000-ft. water frontage opposite New Westminster, where $5,000,000 will be spent within the next three years on the construction of a steel plant and homes for workingmen. About $1,500,000 will be expended this year. James A. Moore, of Seattle, is Pres.

MISCELLANEOUS CONTRACTS.

*(*Denotes that this work is advertised in Engineering News.)*

U. S. RECLAMATION SERVICE.—All news concerning canal and irrigation projects, etc., will be found under Water Supply—Irrigation.

✚TELEPHONE EXCHANGE.—Portland, Me.—The contract for constructing the telephone exchange for the New England Telephone & Telegraph Co. has been awarded to F. W. CUNNINGHAM & SONS, at $111,000. The same firm has also been awarded a contract for an addition to the Elks' Home in Free St., at $35,000.

✚DREDGING.—Boston, Mass.—The contract for dredging at the Boston Navy Yard, bids opened by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., on March 25, has been awarded to the EASTERN DREDGING CO., Boston, Mass., at 34.3 cts. per cu. yd. List of bidders noted on March 30.

✚DREDGING, ETC.—Newport, R. I.—Contract for furnishing dolphins, feeders, piles, dredging, etc., at the naval coal depot, Bradford, Providence, R. I., have been awarded as follows by the Bureau of Yards and Docks: To J. C. TERRY, Fall River, Mass., at $8,500 for constructing the dolphins and piles; J. S. PACKARD DREDGING CO., Providence, R. I., at 36 cts. per cu. yd. for dredging. Noted on March 30.

COMFORT STATION.—Hartford, Conn.—On April 4 the citizens voted to appropriate $25,000 and $60,000 for the construction of a public comfort house and fire engine house and a drill tower.

ALBANY, N. Y.—Walter Melius, City Engr., has prepared plans, it is reported, for river front improvements.

DREDGING.—Buffalo, N. Y.—Bids will be received within a month by the Department of Public Works for dredging Buffalo River, Peck Slip and the City Ship Canal. F. G. Ward is Comr. Pub. Wks. Noted on April 6.

STAIRWAYS.—New York, N. Y.—Bids will be received by the Superintendent of School Buildings, Dept. of Education, until 11 a. m., April 24, for fireproof stairways, etc., at Public Schools 1, 11, 22, 30, 43, 71, 77 and 78, Boro. Brooklyn.

BALCONIES.—New York, N. Y.—Bids will be received by the President of the Board of Trustees until 3 p. m., April 25, for providing all the labor and materials necessary or required for the excavation, masonry, steel and iron work, roofing and metal work, carpentry, painting, glazing, hardware and all other work for the alteration, repair, construction and completion of the enlargement and enclosure of six balconies, Fordham Hospital, Crotona Ave. and the Southern Boulevard, Boro. The Bronx.

COMFORT STATION.—New York, N. Y.—Bids will be received by the Park Board, Dept. of Parks, until 3 p. m., April 20, for all labor and materials required for the erection and completion of a comfort and shelter building located in McKibbin Playground, at McKibbin, White and Seigel Sts., Boro. Brooklyn, together with all the work incidental thereto. Charles B. Stover is Pres.

PLAYGROUND APPARATUS.—New York, N. Y.—Bids will be received by the Park Board, Dept. of Parks, until 3 p. m., April 20, for all labor and material required for completing the contract abandoned by Schoverling, Daly & Gales for furnishing and erecting playground apparatus in various parks in the Boroughs of Manhattan and Richmond.

REPAIRS TO STEAMER.—New York, N. Y.—Bids will be received by Patrick A. Whitney, Comr. of Correction, until 11 a. m., April 20, for furnishing all the labor and materials required for repairs to steamer "Massasoit."

PONTOONS.—New York, N. Y.—Bids will be received by George McAneny, Pres. Boro. Manhattan, until 2 p. m., April 19, for furnishing all the labor and material required for building new pontoons and repairing and caulking old pontoons in various free floating baths, and general carpentering work in connection with repairing various free floating baths.

✚FIRE STATION.—Utica, N. Y.—The Board of Contract and Supply has awarded the contract for erecting a fire station to R. RICHARDS & SON, of Utica, including all work, except plumbing and gas fitting, at $50,822.

PARK.—Atlantic City, N. J.—The City Council has passed a bill providing for an issue of $210,000 bonds for a park and playground at the Inlet.

STEEL FLAG MAST.—Eagle Rock (Orange post-office), N. J.—The Eagle Rock Flag Association, 243 Main St., Orange, will erect a monumental, steel, military flag mast, 300 ft. high, at Eagle Rock near the new casino. The base of the mast will consist of an octagonal chamber. John Leonard Merrill is Secy.

STEEL SHED.—Elizabeth, N. J.—Bids will be received by the city until April 17 for the erection of a steel shed. W. H. Luster, Jr., is City Surv.

ROAD ROLLER.—Jersey City, N. J.—Bids will be received by the Hudson County Boulevard Commissioners until April 14 for furnishing a 12-ton macadam road roller. J. C. Sweeney is Clk.

SHIP CANAL.—Trenton, N. J.—The State Senate has passed the Leavitt Resolution of the Deeper Waterways Association, authorizing a state survey for a ship canal across New Jersey, and providing that the state appropriate $500,000 to secure the right-of-way for such a waterway when Congress is ready to build the canal. Noted on Jan. 26.

✚BREAKER.—Natalie, Pa.—The contract has been awarded to CHRIST & BAKER, of Ashland, Pa., for erecting a coal breaker here.

*DREDGING.—Wilmington, Del.—Bis will be received until 11 a. m., May 11, by Maj. R. R. Raymond, Corps Engrs., U. S. A., Wilmington, for dredging Murderkill River, Del.

*DREDGING.—Baltimore, Md.—Bids will be received until 1 p. m., May 15, by Col. Thomas L. Casey, Corps Engrs., U. S. A., Baltimore, for dredging in Patapsco River, Md.

POST OFFICE WORK.—Baltimore, Md.—Bids were received as follows on April 6, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for painting and decorating the post-office and court-house at Baltimore: Grohne Decorating Co., Joliet, Ill., $16,450; J. G. Valiant & Co., Baltimore, $15,000; James A. King & Son, Baltimore, $9,975; W. P. Nelson Co., New York, $19,743; John Gibson, Philadelphia, Pa., $15,350; Newport Contracting & Engineering Co., Inc., New York, $11,888; Neptune V. Smythe, Inc., New York, $13,893.

PARK.—Hagerstown, Md.—On March 27 the citizens voted in favor of issuing $50,000 of bonds for a park.

CABLE.—Washington, D. C.—A. S. Cowan, U. S. A., Disbursing Officer, War Dept., Washington, will receive bids until April 14 for furnishing 12,000 ft. of paper-insulated, lead-covered submarine cable, type 306, Specification 427-B and 96-B, to be furnished in twelve 1,000-ft. lengths, the reels to remain the property of the contractor and returned when empty. New reels will be required.

ROAD OIL AND TAR.—Washington, D. C.—Bids will be received until 2 p. m., April 14, by the District Commissioners, for furnishing and delivering road oil and tar, and for applying road oil and tar to roads in the District of Columbia.

*LOCK AND DAM.—Wheeling, W. Va.—Bids will be received until 11 a. m., May 10, by Maj. F. W. Altstaetter, Corps Engrs., U. S. A., for constructing Lock and Dam No. 14, Ohio River, at Woodland, W. Va.

*LOCK HOUSE, ETC.—Wheeling, W. Va.—Bids will be received until 11 a. m., May 11, by Maj. F. W. Altstaetter, Corps Engrs., U. S. A., for erecting one lock house and two out buildings in Little Kanawha River, W. Va.

*DREDGING.—Charleston, S. C.—Bids will be received until noon, May 10, by Col. Dan C. Kingman, Corps Engrs., U. S. A., Charleston, for dredging in Winyah Bay, S. C.

DREDGING.—Fort Moultrie, S. C.—Bids will be received until 11 a. m., April 27, by the Construction Quartermaster, U. S. A., Fort Moultrie, for dredging a channel in the vicinity of White Stake Light, northwest of Sullivan's Island, S. C.

*DRAINAGE.—Swanquarter, S. C.—Bids will be received by the Board of Drainage Commissioners of Mattamuskeet Drainage District No. 1, Swanquarter, until noon, May 4, for the excavation of 83 miles drainage canals, and the erection of a pumping plant. For details see advertisement in this issue.

*DREDGING.—Jacksonville, Fla.—Bids will be received until noon, May 12, by Capt. George R. Spalding, Corps Engrs., U. S. A., Jacksonville, for dredging in St. Johns River, below Jacksonville.

✚RIPRAP.—Vicksburg, Miss.—The contract has been awarded by Capt. Clarke S. Smith, Corps Engrs., U. S. A., Vicksburg, for furnishing about 8,400 cu. yds. of light and heavy riprap stone for Ouachita River, to J. F. COLEMAN, 920 Hibernia Bldg., New Orleans, La., at $2.25 per cu. yd. Bids were opened on March 21. List of bidders noted on April 6.

✚CEMENT.—Vicksburg, Miss.—The followings bids were opened March 21 for furnishing 4,300 bbls. American Portland cement, delivered in sacks f. o. b. cars on the lock switch of the St. Louis, Iron Mountain & Southern Ry., at Monroe, La., and for use on improving Ouachita River, Ark., and La., Locks and Dams Nos. 4 and 8: (a) brand, (b) per bbl.: Lehigh Portland Cement Co., Cleveland, Ohio, (a) "Lehigh," (b) $2.16. Atlas Portland Cement Co., 30 Broad St., New York, (a) "Atlas," (b) $1.60. Iola Portland Cement Co., 815 Commerce Bldg., Kansas City, Mo., (a) "Iola," (b) $1.47; United Kansas Portland Cement Co., 811 Commerce Bldg., Kansas City, (a) "Sunflower," (b) $1.42; Altoona Portland Cement Co., 706 Commerce Bldg., Kansas City, (a) "Altoona," (b) $1.47. The contract has been awarded to the UNITED KANSAS PORTLAND CEMENT CO.

CANAL.—Adeline, La.—Bids will be received by the Cypremort Drainage Board until 2 p. m., April 15, for digging a canal of approximately 129,000 cu. yds. W. F. Giles is Secy., Adeline.

✚CONCRETE PIERS.—New Orleans, La.—The contract for the construction of concrete piers for the W. A. Kernaghaun shed was awarded on April 4 by the Board of Commissioners of the Port of New Orleans to JOHN RIESS, the lowest bidder, at $10.40 per cu. yd.

✚LEVEE.—New Orleans, La.—The contract was awarded on March 29 by the State Board of Engineers to LAWRENCE BROS. & CO., Memphis, Tenn., for constructing the Lucca Levee at 20.82 cts. per cu. yd. Other bidders were: A. L. Patterson, 21.9 cts.; Donovan & Daley, 25¾ cts.; Clark & Helgason Bros., 24.7 cts.; Roach & Stansell, 22.85 cts. The Cusilick Side Levee was let to DOULLUET & WILLIAMS, at 21.5 cts. per cu. yd.

COMFORT STATION.—Cincinnati, Ohio.—Bids will be received by the Board of Park Commissioners until noon of April 17, for furnishing the necessary labor and material for the construction of a combined band stand and comfort station in Inwood Park, according to the plans and specifications on file in the office of A. Lincoln Fechheimer, Arch., 802 Lyric Theater Bldg. M. C. Longnecker is Secy.

GRAND STAND.—Cleveland, Ohio.—Bids will be received by the Clerk, Board of Education, until April 24, for furnishing the material and constructing a grand stand, fences and seats for the West Technical High School. Charles Orr is Dir. Schools.

WALL.—Cleveland, Ohio.—The Board of Public Service is considering the construction of a wall near the Kirtand pumping station. Estimated cost, $26,000. A. E. Lea is Dir.

✚CEMENT.—Dayton, Ohio.—The contract has been awarded to the DAYTON BUILDERS' SUPPLY CO., for 12,000 bbls. of cement for use in the construction of the Rike-Kuneler building at Second and Main Sts.

ASPHALT.—Dayton, Ohio.—Bids will be received until April 14 by the Department of Public Service for furnishing about ten carloads of asphalt. William A. Budroe is Secy.

POWDER MAGAZINE.—Indianapolis, Ind.—The Dupont Powder Co., of Wilmington, Del., has purchased a 120-acre site south of this city on which to build a powder magazine, and probably a powder mill. John L. F. Steeg is Local Agt.

WALL.—Sandusky, Ohio.—Bids will be received by the Improvement Committee of the Put-in-Bay Parks, until 7 p. m., April 18, for the construction of a revetment wall, about 800 ft. long, to be built along the lake front of the Put-in-Bay Parks, according to the plans and specifications on file with Carl Oelschlager, Clk.

DRAIN.—Shelbyville, Ind.—Bids will be received until 2 p. m., April 17, by Albert R. Keaton, Drainage Comr., at the office of Hord & Adams, Shelbyville, for the construction of a drain.

✚DITCH.—Winchester, Ind.—The contract has been awarded to EGBERT ISENBERGER, of Lynn, it is reported, for constructing the Edwards Ditch at $10,924. Bids were opened on March 31.

DREDGING.—Grand Rapids, Mich.—Bids were received on March 30 as follows by Major C. S. Ritchie, Corps Engrs., U. S. A., for dredging as follows: 155,000 cu. yds. at South Haven: The Great Lakes Dredge & Dock Co., Chicago, Ill., for 79,000 cu. yds., scow measurement, 13¼ cts., and 57,000 cu. yds. place measurement, 18 cts.; 75,000 cu. yds. dipper dredge dredging at Manistee Harbor: Greiling Bros., Green Bay, Wis., 19.75 cts. per cu. yd.; 128,000 cu. yds. dipper dredge dredging at Muskegon Harbor, Adolph F. Bues, of Milwaukee, Wis., 15½ cts. per cu. yd.

✚DITCHES.—Broughton, Ill.—The contract has been awarded by T. James Allen, Drainage Comr., Broughton, to COLEMAN & SONS, of Paragould, Ark., for the construction of ditches in North Fork Special Drainage District in Hamilton and Salina Counties at 6¾ cts. per cu. yd., or a total of $148,000.

HARBOR.—Chicago, Ill.—The State Senate has passed a bill empowering the city to construct an outer harbor. B. J. Mullaney is Comr. Pub. Wks.

LEVEE, ETC.—East Peoria, Ill.—Bids will be received until 2 p. m., April 14, by the Commissioners of the East Peoria Drainage and Levee District, Tazewell County, at the office of Millard & Dennis, 300 East Washington St., East Peoria, for the construction of the following work: Section 9, levee and muck ditch, 140,000 cu. yds. The payment for the muck ditch and levee by the cubic yard shall include compensation to the contractor for pulling and removing of stumps from the right-of-way of levee and borrow pit, as required in the specifications. The timber will be cut and removed from the right-of-way by the District. Section 10, drainage ditches, 64,300 cu. yds. The payment for the excavation of the interior ditches shall include compensation to the contractor for the removal of stumps, but the timber will be removed from the right-of-way by the District. Section 11. This section, comprising all of the machinery for complete pumping station, including all machinery foundations. The machinery required will be as follows: One 18-in. centrifugal pump, and one [illegible] pump, together with steel [illegible] and discharge piping, as shown; two induction motors of the [illegible] operate the pumps at specified; 3-speed transmission gears, [illegible] appurtenances, including [illegible] vacuum pump for priming the [illegible] and also machinery foundations comprising all of the [illegible] round piling, concrete footings for building, together with building the plant, as shown on [illegible] described in the specifications and 12 are intended to cover [illegible] and material necessary for a complete pumping plant finished in every [illegible] and specifications are on file [illegible] seen at the office of the Harding Co., 120 Fredonia Ave., Peoria, [illegible] at the office of W. S. Kellogg, Insurance Bldg., Peoria.

TILE DRAINS.—Geneseo, Ill.—Bids will be received until April 14 at [illegible] Melliush & Broyhill, Engrs., [illegible] Bloomington, Ill., for constructing [illegible] 170 lin. ft. of 5 to 20-in. tile [illegible] miles north of Geneseo, tile [illegible] owner.

✚DITCHES.—Newton, Ill.—The [illegible] constructing ditches in Mint Creek [illegible] District, has been awarded to H. [illegible] of Chesterton, Ind., at 14 cts. per [illegible] an estimate of 50,000 cu. yds. [illegible] opened on March 27.

✚DITCH.—Prophetstown, Ill.—[illegible] McNEILL, of Prophetstown, has been awarded the contract by the Commissioners of Slough Special Drainage District [illegible] town, for constructing branch ditch [illegible] Loraine Township, Henry County, [illegible] to be two miles long, 6 ft. wide at bottom, [illegible] ft. deep, requiring about 38,000 cu. yds. excavation, consisting of muck and [illegible] 11.95 cts. per cu. yd. Bids were opened April 1. F. W. Sears, Prophetstown, Engr.

DITCH.—Raymond, Ill.—Bids will be received until April 15 by the Drainage Commissioners of Union Drainage District No. 1 of the towns of Raymond and Bois-Brule, L. Potts, Clk., Raymond, for constructing an open ditch requiring 5,910 cu. yds. of excavation and tile drains requiring 83,925 ft. of 6-in. to 30-in. tile. J. W. Dappert is Engr., Taylorville, Ill.

ENGINE AND BOILERS.—Chippewa, Wis.—The Four Wheel Drive Auto Co., it is reported, is in the market for a 100 HP. engine and two boilers, about 60-in. [illegible] in. for delivery about June 1, when the first unit of the new plant will be completed. William Besserdich is Gen. Mgr.

SCREENINGS AND GRAVEL.—Milwaukee, Wis.—Informal bids will be received, it is reported, by the city, for crushed stone screenings and gravel, two portable melting kettles, portable asphalt repair plant, and an automobile for the Department of Public Works. Harry E. Briggs is Comr. Pub. Wks.

✚DITCH.—Sibley, Iowa.—The contract has been awarded to C. J. McELHANY, of Colo, Iowa, for constructing a ditch in Drainage District No. 11, at $9,000. The tile work contract has been awarded to the SIBLEY CEMENT CO., of Sibley, at $7,170. Noted on March 16.

✚DITCH.—Bemidji, Minn.—Bids were received as follows on April 7 by J. L. George, County Audr., for constructing ditch No. 5: BROWN & McGRAW, $17,696 (awarded contract); A. Peterson, $19,989; A. Perasse, $20,168.

✚DITCH.—De Smet, S. Dak.—The contract for the Kingsbury County Ditch No. 4, consisting of 26,000 lin. ft. of 10-in. and 20-in. tile drain, has been let to the F. DESMOMOUX CONSTRUCTION CO., Cottonwood, Minn. Ditching machinery is needed. Bids were as follows: F. Desmormoux Construction Co., $17,198; Brookngs Construction Co., Brookings, S. Dak., $17,904 (clay tile); Sherbourn Cement Drain Tile Co., Sherbourn, Minn., $17,904 (cement tile); Arailo Works, Rock Island, Ill., $18,321 (vitrified clay tile); Worthington Cement Tile Co., Worthington, Minn., $16,009 (cement tile).

✚STEEL CULVERTS.—Lisbon, N. Dak.—Bids were received on April 3 by I. E. Arnason, County Audr., for corrugated steel culverts to be used during the year. The contract has been awarded to ERNEST BILLING, of Lisbon.

DITCHES.—Carrollton, Mo.—Bids will be received by the County Auditor, about May 15, for the construction of the Drainage District No. 3 of Carroll County, consisting of a main ditch about 21 miles in length, with 40 and 50-ft. base and twelve miles of laterals. Total excavation, 2,000,000 cu. yds. Brooks & Jacoby, 515 Shukert Bldg., Kansas City, Mo., are Engrs.

✚CONCRETE WALL.—Kansas City, Mo.—Callahan Bros. have awarded a contract to A. G. TAUBERT, Kansas City, for the construction of a concrete wall about 2,000 ft. long, and from 16 to 24 ft. high in connection with the Kaw Valley drainage work at Kansas City, Kan.

STEEL BARGES.—Kansas City, Mo.—Bids will be received until noon, May 1, by Maj. E. H. Schultz, Corps Engrs., U. S. A., Kansas City, for constructing and delivering steel barges.

ASPHALT PLANT.—St. Louis, Mo.—Bids will be received by the Board of Public Improvements until noon, April 28, for the construction and installation of a municipal asphalt plant in accordance with the specifications on file in the offices of the Board of Public Improvements and the Street Commissioner. W. B. Dryden is Secy. Bd.

✚MONUMENT.—St. Louis, Mo.—The contract for the Jefferson Memorial Monument, to be built at the DeBalivere entrance to Forest Park by the Louisiana Purchase Exposition Co., has been awarded, it is reported, to JAMES STEWART & CO., Lincoln Trust Bldg., St. Louis. The monument will cost $360,000, and will be ready for dedication April 30, 1912. Isaac S. Taylor is Arch. One

wing of the structure will be devoted to exhibition rooms of the Missouri Historical Society, and the other to a Jefferson Hall. A public comfort station will occupy a large portion of the basement of the monument. The material of the monument will be of Bedford limestone.

CANAL.—Wilmot, Ark.—The Board of Drainage Commissioners, W. E. Barnes, Chn., will receive bids until noon, June 1, for digging a drainage canal and laterals in Ashley County, about 700,000 cu. yds. For further information apply to W. B. de Yampert, Secy. R. B. Eggleston is Engr., England, Ark.

NAVIGATION DISTRICT.—Matagorda, Tex.—George Culver, of Matagorda, and other property owners of this town and section are promoting the proposition of forming a navigation district and voting $25,000 of bonds for dredging a channel 5 ft. deep and 75 ft. wide from St. Mary's Bayou at the mouth of the Colorado River to a junction with the proposed intercoastal canal, two miles in Matagorda Bay. The proposed channel would open up for navigation about 20 miles of the Colorado River, along which are situated several large rice and cotton plantations.

CEMENT.—Boulder, Colo.—See item under Water Supply—Irrigation.

✚BATHING PAVILION.—Seattle, Wash.—Bids have been opened as follows by the Park Commissioners for the construction of a 2-story, 260-ft. free bathing pavilion, on Alki Ave. and 61st St., West Seattle: JENKINS & JONES, Hinckley Block, Seattle, $23,892 (awarded contract); Alexander Dow, $24,876; Rounds-Hurson Co., $25,425; B. H. Graff, $25,739; Butler Construction Co., $25,900; McClennan-Hickey Co., $29,266. The work includes a 300-ft. seawall.

BUILDINGS, SHED, ETC.—Seattle, Wash.—Bids will be received until 11 a. m., April 28, by Capt. F. C. Long, Constr. Q. M., U. S. A., Arcade Annex, Seattle, for the construction at Fort Ward, Wash., of an administration building, a quartermaster's workshop, a guardhouse, a quartermaster's stable, a coal shed, a wagon shed, a fire station, an oil house and a quartermaster's and commissary storehouse; also plumbing, heating and electric wiring where required.

WATER FRONT IMPROVEMENTS.—Tillamook, Ore.—The Port Commissioners of Tillamook, it is reported, have decided to issue bonds for $150,000, applying $236,000 toward the improvement of the bar and the remainder to the improvement of the water front.

✚ROOFING, SHEET METAL WORK.—Berkeley, Cal.—The Regents of the University of California have awarded the contract to the GUILFOY CORNICE WORKS, 209 Eighth St., San Francisco, Cal., for roofing and sheet metal work on the new Agricultural Hall building, at $13,765.

✚OIL STORAGE TANK.—Los Angeles, Cal.—The Los Angeles Gas & Electric Corporation has awarded a contract to the LLEWELLYN IRON WORKS, Los Angeles, for the erection of a 65,000-bbl. oil storage tank at Aliso and Center Sts., at $23,425.

LOS ANGELES, CAL.—The Pacific Telegraph & Telephone Co. has taken out a permit for the erection of a 3-story brick telephone exchange sub-station on Gower St. Estimated cost, $26,500.

DREDGING.—Ottawa, Ont.—Bids will be received until 4 p. m., April 25, by R. C. Desrochers, Secy. Dept. Pub. Wks., Ottawa, for dredging required at the following places in Ontario: Big Creek, Big Island, Echo Bay, Kincardine, Port Elgin, Kingsville, Penetanguishene, River Thames, Salt Point (Presqu'Ile) and Wiarton.

CANAL WORK, ONT.—Bids will be received until April 21 by L. K. Jones, Secy. Dept. Railways and Canals, Ottawa, Ont., for canal office enlargement; also for improving the lower entrance to Farran's Point Canal. Specifications, etc., may be seen at Ottawa or at the office of the Resident Engr., Ontario-St. Lawrence Canals, Ottawa.

✚CEMENT.—Peterboro, Ont.—Bids were received on March 31 by the city for furnishing Portland cement. The contract has been awarded to R. HICKS & CO., at $1.65 per bbl.

WHARF EXTENSION.—Ottawa, Ont.—Bids will be received until April 26 by R. C. Desroches, Secy. Dept. Pub. Wks., Ottawa, for the construction of an extension to the western wharf at the Quarantine Station, Gross Isle, Que. J. L. Michaud is Dist. Engr., Merchants' Bank Bldg., Montreal, Que.

IRON SHEETING.—Regina, Sask.—Bids will be received by A. J. McPherson, City Comr., it is reported, until April 17, for furnishing 40,000 sq. yds. of g.-i. sheeting.

TELEPHONE CONSTRUCTION.—Regina, Sask.—Bids will be received until April 22 by S. P. Porter, Deputy Minister Railways, Telegraphs and Telephones, Ottawa, Ont., for the construction of the following lines: Moose Jaw-Swift Current, Saskatoon-Battleford, Saskatoon-Biggar, Abernethy-Strassburg, Wolsley-Windthorst.

✚PUBLIC BATHS.—Winnipeg, Man.—The city has awarded a contract to H. BRUCE and A. BOSTRUM for the installation of public baths, at $44,880. William Bruce is Arch.

ROAD ROLLERS.—Winnipeg, Man.—Bids will be received until April 19 by the Board of Control, M. Peterson, Secy., for the supplying one 10-ton and one 8-ton asphalt road rollers, driven by either steam or gasoline.

WHARF, TRESTLE, ETC.—Alaska.—Bids will be received by the Commanding Officer, United States Marine Barracks, Sitka, Alaska, until 11 a. m., May 27, for a wharf, trestle, etc., at the United States naval coal depot, Japonski Island, Sitka. Plans, specifications, form of proposal, etc., can be obtained on application to the Bureau of Yards and Docks, Washington, D. C., or to the Commanding Officer, United States Marine Barracks, Sitka.

CONTRACT PRICES.

BRIDGES.—Vermillion, S. Dak.—Bids were received on March 22 by the Board of Commissioners of Clay County for constructing highway bridges over Vermillion River Drainage Ditch, from: (A) Pennsylvania Bridge Co., Beaver Falls, Pa.; (B) Orma Structural Steel Works, Omaha, Neb.; (C) Federal Bridge Co., Des Moines, Iowa; (D) Lewis & Leeder, Sioux City, Iowa; (E) Jared Runyan, Vermillion, S. Dak. The bids were as follows:

	A	B	C			D	E		
			a	*b*	*c*	*d*	*e*	*f*	*g*
Bridge No. 1, 70-ft. span....	$3,055	$2,795	$2,450	$2,210	$2,060	$2,420	$3,206	$2,443	$2,283
Bridge No. 2, 75-ft. span....	3,255	3,000	2,575	2,300	2,780	2,510	3,331	2,559	2,389
Bridge No. 3, 80-ft. span....	3,270	3,250	2,820	2,560	3,120	2,760	3,505	2,684	2,514
Bridge No. 4, 132-ft. span....	5,528	4,995	4,460	4,120	4,060	4,330	5,905	4,411	4,131
Bridge No. 5, 110-ft. span....	4,440	4,297	3,590	3,300	3,975	3,570	5,060	3,715	3,477
Bridge No. 6, 85-ft. span....	3,625	3,265	2,885	2,450	3,100	2,750	3,840	2,850	2,680
Bridge No. 7, 107-ft. span....	4,823	4,520	4,040	3,610	4,250	3,825	4,690	3,707	3,484
Bridge No. 8, 142-ft. span....	6,165	5,497	5,110	4,550	5,320	4,775	6,513	4,595	4,295

*a*Steel spans on steel cylinder piers, 18-ft. roadway.
*b*Steel spans on steel cylinder piers, 16-ft. roadway.
*c*Steel spans on concrete piers, 18-ft. roadway.
*d*Steel spans on concrete piers, 16-ft. roadway.
*e*Reinforced-concrete arch bridges.
*f*Steel spans with steel joists.
*g*Steel spans with timber joists.

U. S. POSSESSIONS.

AIR COMPRESSOR.—Hawaii.—Bids will be received until April 29 by the Bureau Yards and Docks, Navy Dept., Washington, D. C., for a 3,000 cu. ft. air compressor with intercooler, aftercooler and air receiver for the central power plant, U. S. Naval Station, eParl Harbor. Estimated cost, $13,500.

EQUIPMENT.—Panama.—Bids will be received until April 27 by Capt. F. C. Boggs, Corps Engrs, U. S. A., Gen. Pur. Officer, Isthmian Canal Commission, Washington, D. C., for furnishing equipment necessary to completely equip the mechanical filters at Gatun, as per Circular No. 627A.

ENGINEERING SUPPLIES.—Panama.—Bids are asked as follows by Capt. F. C. Boggs, Gen. Pur. Officer, Isthmian Canal Comn., Washington, D. C., for engineering supplies: Until 2 p. m., April 22, under Circular 627C: Piling, 85 ft. long, 500 pieces, creosoted, and 2,000 pieces, uncreosoted; also 8,000 ft. of 2½-in. fire hose; May 10, until 10.30 a. m., under Circular 628; Annual supplies of steel rails, switches, grogs an dother track material; copper, lead, pig-iron, cast-iron, etc.

WIRE.—Panama.—Bids were received on March 20 by Capt. F. C. Boggs, Corps Engrs., U. S. A., Gen. Pur. Officer, Isthmian Canal Comn., Washington, D. C., for furnishing 50,000 ft. of wire, triple outer braid, weatherproof No. 4, B. & S. gauge, solid copper conductor: Atlantic Insulated Wire & Cable Co., New York City, 13.875 cts. per lb.; General Electric Co., Schenectady, N. Y., $24 per M ft.; National Brass & Copper Tube Co., New York, 13.5 cts. per lb.; National Electrical Supply Co., Washington, D. C., $23.20 per M ft.; John A. Roebling's Sons Co., Trenton, N. J., 13.6 cts. per lb., immediate delivery; U. S. Steel Products Co., 30 Church St., New York City, 13.175 cts. per lb.; Western Electric Co., 463 West St., New York, 14.1 cts. per lb.

OIL.—Panama.—Bids were received as follows on April 5 by Capt. F. C. Boggs, Corps Engrs., U. S. A., Gen. Pur. Officer, Isthmian Canal Commission, Washington, D. C., for furnishing the supply of oil to be used on the Isthmus during the fiscal year ending June 30, 1912, in the following quantities: 60,000 gallons locomotive engine oil, 65,000 gallons valve oil, 70,000 gallons car oil, 25,000 gallons stationary engine (dynamo) oil, 30,000 gallons marine engine oil, 6,000 gallons turbine engine oil, 22,000 gallons non-liquid oil, 450 lbs. crankpin grease, 12,000 lbs. cable grease, 60,00 lbs. yellow grease, 60,000 lbs. black (gear) grease: Calena Signal Oil Co., 26 Broadway, New York, (a) $103,944, (b) $60,735; Keystone Lubricating Co., Philadelphia, on non-liquid oil and greases only, $10,196; Marine Oil Co., New Orleans, $49,691; New York Lubricating Oil Co., 110 Broad St., New York, $65,161; William C. Robinson & Son Co., Baltimore, $81,676; L. Soneborn Sons Co., 262 Pearl St., New York, $65,057; Sun Co., Philadelphia, $54,994; Texas Co., 17 Battery Pl., New York, $65,739; Union Petroleum Co., Philadelphia, Pa., $72,589; United Oil Co., Pittsburg, Pa., $132,774; Wire Hope Lubricator Co., Newark, N. J., cable grease, $480.

TIES.—Panama.—Bids were received as follows on April 10, by Capt. F. C. Boggs, Corps. Engrs., U. S. A., Gen. Pur. Officer, Isthmian Canal Comn., Washington, D. C., for furnishing (a) 230,000 cross-ties, 7 × 9 ins., × 8½ ft., to be of cypress, long leaf yellow pine, Douglas fir or redwood; (b) 220 sets of switch ties, of the same materials: Apex Equipment Co., New York, (a) pine, $188,600; Balfour-Guthrie Trust Co., Portland, Ore., (a) fir, $201,020, (b) $13,417, if awarded (a) as well; G. S. Baxter & Co., 15 William St., New York, (a) cypress, $201,020; pine, $183,540; (b) cypress, $19,674, $18,315; pine, $16,949, $15,591; William P. Cook & Co., New York, (a) cypress, $199,640; pine, $181,240; (b) pine, $16,617; G. Elias & Bros., Buffalo, (a) cypress, pine or fir, bidder's option, $248,400, $225,400; (b) pine or fir, $16,306; Germaine Co., Pittsburg, (a) pine, 81¾ cts. each for 85,000; Gress Mfg. Co., 18 Broadway, New York, (a) cypress, $206,600; pine, $186,400; J. K. Joice, Chicago, (a) pine or cypress, bidder's option, $190,900; (b) same, $15,318, $13,320 if awarded (a) also; Robinson Lumber, Veneer & Box Co., New Orleans, La., (a) pine, $186,300; American Tie & Timber Co., New York, (a) pine or cypress, bidder's option, $185,748; (b) same, $23,776; W. R. Grace & Co., San Francisco, fir, (a) $205,850; (b) $14,275; Charles R. McCormick Co., San Francisco, (a) $225,975; (b) $14,947. Deliveries: Cypress and pine at Colon; Douglas fir at Port of Ancon.

FOREIGN CONTRACTS.

(To insure prompt attention, letters on consular business should be addressed to The American Consul at ———, ———. Such letters are opened and attended to by whoever may be in charge of the office. If addressed to the consul, personally, letters are forwarded to him, unopened, should he be absent, and a delay thus intervenes. If, in the meantime, he should have gone out of office, the matter may wholly escape attention.)

✚NAVAL VESSELS.—Turkey.—It is reported that the Turkish Government has awarded the contract to ARMSTRONG, WHITWORTH & CO., LTD., of London, England, for constructing three battleships of 16,500 tons each, and several smaller vessels.

ROAD.—Tangier.—A road will be constructed from Martel River to Tetuan. Upon application to the Bureau of Manufactures, Washington, D. C., mentioning File No. 6189, copies of the notice of award of contract, and one plan, drawn to scale, in profile of the road may be obtained. Estimated cost, $40,000.

HARBOR WORKS.—Belgium.—The works for enlarging the docks and shipping facilities of Antwerp are estimated to cost about $1000,000, including the following: New dock, canalboat basin and dry dock, $307,000; dock walls, bridges, roads, new lock gates, etc., $67,000; warehouses, $100,000; sheds, and buildings, $125,000.

For other Proposal Advertisements see pages 57, 58, 60, 62, 64 of Advertisements and Construction News page 184.

TANK AND TOWER.

Sioux City, Iowa.

The City Clerk of Sioux City, Iowa, will receive bids until 10 A. M., April 22d, 1911, for the construction of a one hundred thousand (100,000) gallon steel tank and tower. Specifications may be had at the office of G. B. HEALY, Supt. of Parks and Public Property.

MAIN DRAINAGE.

Toronto, Ont.

Low Level Interceptor:
Section No. 5—3,350 linear feet.
Section No. 6—2,830 linear feet.
Section No. 7—3,778 linear feet.
Section No. 8—3,238 linear feet.

Sealed tenders for the laying of reinforced concrete pipe sewer complete will be received by registered post only, addressed to the Chairman of the Board of Control, Toronto, Ontario, up to noon of May 9th, 1911.

The concrete pipe to be laid will be supplied by the City. The diameters are as follows: For Section No. 5, 60 inches; for Section Nos. 6, 7, and 8, 66 inches.

Plans and specifications are on file at the office of this journal. Plans may be seen, and specifications and further information may be obtained from the Main Drainage Works, City Engineer's Office, Toronto.

G. R. GEARY (Mayor),
Chairman, Board of Control.
City Hall, Toronto, April 10th, 1901.

EXCAVATION OF DRAINAGE CANALS AND THE ERECTION OF PUMPING PLANT.

Swanquarter, N. C., April 1, 1911.

Sealed proposals for the excavation of eighty-three (83) miles of drainage canals and the erection of a pumping plant will be received by the Board of Drainage Commissioners of Mattamuskeet Drainage District No. 1, at the Court House, Swanquarter, Hyde County, North Carolina, until noon, Tuesday, May 4th, 1911, when they will be opened and publicly read.

The excavation of the drainage canals requires the removal of approximately 2,700,000 cubic yards of earth excavation.

The installation of the pumping plant requires the furnishing and putting in place of suitable pumps, engines and boilers to discharge eighteen hundred (1,800) cubic feet of water per second against a head of eight (8) feet.

All of the above work to be done in accordance with specifications furnished therefor and to be completed within two years from date of contract.

Separate bids will be received for the excavation and for the pumping plant.

A complete set of the specifications, drawings and blank forms for bidders will be placed on file for inspection at the following places:

Office of Engineering News, New York City.

Office of Manufacturers' Record, Baltimore, Md.

Office of The "Contractor," Chicago, Illinois.

Office of Southern Land Reclamation Co., 95 Milk St., Boston, Mass.

Office of Board of Drainage Commissioners, Swanquarter, North Carolina.

A complete set of the drawings and specifications can be obtained from J. O. Wright, Tallahassee, Florida, on the payment of Two ($2) Dollars to cover cost of same.

Each proposal submitted must comply with all the terms and conditions of the specifications. The Board of Drainage Commissioners reserves the right to reject any and all bids.

Board of Drainage Commissioners,
JOHN P. KERR, Secretary.
Middletown, Hyde Co., North Carolina.
J. O. WRIGHT,
Consulting Engineer,
Tallahassee, Florida.

SEWAGE DISPOSAL WORKS.

Batavia, N. Y.

Sealed proposals will be received at the office of the Batavia Sewer Commission until 10 o'clock a. m., on the 15th day of May, 1911, for furnishing materials and doing all work as specified for the construction of Preliminary Settling Tanks of the Imhoff type, Sprinkling Filterers and Sludge Drying Beds, including necessary fittings and appurtenances.

Plans and specifications may be seen at the office of Hering & Fuller, Consulting Engineers, 170 Broadway, New York City. The plans may be seen, and specifications and forms of proposal obtained from Charles Hoopes, Resident Engineer, at the office of the Sewer Commission in Batavia, N. Y.

A full set of blueprints and specifications, including bidding sheets, will be forwarded to any applicant, express prepaid, upon the receipt of a deposit of $5.00, which will be returned upon the return of the blueprints in good condition. Each bid must be accompanied by a certified check on a solvent bank for dollars.

The Board of Sewer Commissioners of the Village of Batavia reserves the right to reject any and all bids, to waive any informality in the bids received and to accept any which it deems to be most favorable to the Village of Batavia. Unbalanced bids will be rejected without consideration.

K. B. MATHES,
Chairman Board of Sewer Commission.
Attest:
JOHN H. WOOD,
Clerk, Board of Sewer Commission.

POWER PUMPS, ETC.

Sioux City, Iowa.

Bids will be received by the City Clerk of Sioux City, Iowa, until 10 A. M., April 22d, 1911, for furnishing and installing two triplex single or double acting power pumps and two gasoline engines. Specifications may be had at the office of G. B. HEALY, Supt. of Parks and Public Property.

U. S. ENGINEER OFFICE, Jacksonville, Fla., April 12, 1911.—Sealed proposals for dredging in St. Johns River, below Jacksonville, Fla., will be received at this office until 12 M., May 12, 1911, and then publicly opened. Information on application. GEO. R. SPALDING, Capt., Engrs.

U. S. ENGINEER OFFICE, Wheeling, W. Va., April 10, 1911.—Sealed proposals for constructing Lock and Dam No. 14, Ohio River, at Woodland, W. Va., will be received at this office until 11 a. m. (Eastern time), May 10, 1911, and then publicly opened. Information on application. F. W. ALTSTAETTER, Major, Engrs.

HIGHWAYS.

Albany, N. Y.

NOTICE TO CONTRACTORS.—State of New York, Office of the State Commission of Highways, Albany, N. Y. Pursuant to the provisions of chapter 30, Laws of 1909, sealed proposals will be received by the undersigned at their office, No. 55 Lancaster street, Albany, N. Y., at one o'clock P. M. on Monday, the 24th day of April, 1911, for the improvement of the following highways:

County.	Road No.	Name.	Approx. length.
Columbia	5103	Stottsville-Stuyvesant Falls	5.00
Columbia	5104	Stuyvesant Falls-Valatie	4.50
Dutchess	5092	Red Hook-Rhinebeck	4.15
Dutchess	5095	Red Hook Village	1.33
Erie	913	Ellicott Creek	1.77
Fulton and Montgomery	5096	Fonda-Johnstown	3.03
Herkimer	465	Salisbury Center-Burrells	5.43
Livingston	716	Livonia-Lakeville	2.23
Madison	883	De Ruyter-Lawson's Forks	2.14
Montgomery	5109	St. Johnsville-Nelliston	4.79
Nassau	898	E. Norwich-Memorial Cemetery	2.88
Onondaga	896	Eastwood Village-E. Syracuse Village	2.43
Orange	415	Newburg-Cornwall	3.18
Putnam	909	Brewster-Carmel	4.56
Putnam	5098	Brewster Village	1.14
Rensselaer	5107	Rensselaer City	0.40
Steuben	903	Thurston-Campbell, Part 2	2.07
Ulster	310	Post Road	4.25
Wayne	918	Macedon-Cator Four Corners	1.16
Westchester	899	Cross River-Crafts Corners	5.68
Wyoming	892	Castile-Castile Center	1.43
Genesee	922	Indian Falls-Corfu, Part 2	1.85
Genesee	923	Pavillion-Batavia, Part 1	4.70

An Alternative Proposal to be endorsed "5103-4 combined" will be received for the following roads combined in one contract, viz.:

Columbia	5103	Stottsville-Stuyvesant Falls	9.50
	5104	Stuyvesant Falls-Valatie	
Cortland	881	Blodgett Mills, Cortland	1.79

The Commission reserves the right to award contracts for State highways 5103 and 5104 in the manner which shall be deemed most advantageous for the State, namely: either on separate proposals for highways 5103 and 5104 or on proposals for these two highways combined.

Sealed proposals will also be received by the undersigned at their office, No. 55 Lancaster street, Albany, N. Y., at one o'clock P. M., on Wednesday, the 26th day of April, 1911, for the improvement of the following highways:

County.	Road No.	Name.	Approx. length.
Essex	891	Ticonderoga-Crown Point, Part 1	5.99
Dutchess	709	Millerton-Columbia County Line	4.80
Dutchess	748	Pleasant Valley-Washington Hollow	5.46
Erie	914	Broadway-Depew	3.52
Erie	915	Lancaster Village	1.46
Erie	916	Depew Village	2.80
Erie	917	Lancaster-Alden	4.11
Herkimer	466	Burrells-Middleville	5.56
Livingston	717	Livonia-Ontario County Line	5.87
Madison	908	Canastota Village	2.07
Montgomery	889	Fort Plain Village	0.64
Nassau	5106	Little Neck-Old Westbury, Parts 1 and 4	2.50
Onondaga	897	Skaneateles-Camillus, Part 2	4.24
Orange	416	Rockland County Line-Tuxedo	6.10
Rensselaer	5108	Brainerd Station Highway	0.20
Essex	5117	Ruba Mills-New Russia	6.00
Steuben	904	Atlanta-North Cohocton	1.64
Steuben	905	Troupsburg Center-South Troupsburg	3.90
Suffolk	912	Port Jefferson-Coram	6.69
Sullivan	824	Stone Bridge-Falls Mills	3.38
Ulster	921	Rifton Village	2.13
Wayne	919	Clyde-Resort, Part 1	3.81
Westchester	900	Woods Bridge-Lewis Corners	4.26
Wyoming	893	Bliss-Smith Corners	3.61
St. Lawrence	5115	Canton-Potsdam, Part 1	4.74
St. Lawrence	5116	Canton-De Kalb	5.43

An alternative proposal to be endorsed as "5115-16 combined" will also be received for the following roads combined in one contract, viz.:

St. Lawrence	5115	Canton-Potsdam, Part 1	10.17
	5116	Canton-DeKalb	

The Commission reserves the right to award contracts for State highways 5115 and 5116 in the manner which shall be deemed most advantageous for the State, namely: either on separate proposals for highways 5115 and 5116 or on proposals for these two highways combined.

Sealed proposals will also be received by the undersigned at their office, No 55 Lancaster street, Albany, N. Y., at one o'clock P. M., on Friday, the 28th day of April, 1911, for the improvement of the following highways:

County.	Road No.	Name.	Approx length
Broome	902	Glen-Aubrey-Whitney's Point	5.30
Cattaraugus	5099	Olean City	.36
Cayuga	5101	Auburn City	1.83
Chemung	888	Horseheads-Catlin	3.72
Clinton	5102	Champlain-Mooers Forks, Part 2	7.00
Dutchess	895	Fishkill Village	1.06
Fulton	544	Johnstown-Broadalbin	6.28
Herkimer	5105	Little Falls City	1.88
Monroe	5097	Garbutt's Crossing	1.06
Oneida	5091	Yorkville Village	1.06
Schenectady	5110	Wyatts-Hoffman	5.42
Seneca	5087	Geneva-Waterloo	5.95
Seneca	5100	Seneca Falls Village	2.50
Steuben	906	Big Creek, Parts 1 and 2	5.98
Steuben	907	Big Creek, Part 4	4.13
Steuben	5094	Painted Post-Addison, Part 2	2.50
Suffolk	5111	Jericho Turnpike, Part 2	5.02
Suffolk	5112	Jericho Turnpike, Part 3	4.99
Sullivan	890	Monticello-Mongaup Valley	4.87
Ulster	5114	Milton-Marlboro	3.82
Washington	5113	Cambridge-Salem, Part 1	3.75
Wayne	920	Lyons-Sodus Point, Part 1	3.00
Westchester	901	Port Chester-Crystal Springs, Part 1	1.89
Wyoming	894	Java Center-Java Village	3.56

An alternative proposal to be endorsed as "5111-12 combined" will also be received for the following roads combined in one contract, viz.:

Suffolk	5111	Jericho Turnpike, Part 2	10.01
	5112	Jericho Turnpike, Part 3	

The Commission reserves the right to award contracts for State Highways 5111 and 5112 in the manner which shall be deemed most advantageous for the State, namely: Either on separate proposals for highways 5111 and 5112 or on proposals for these two highways combined.

Maps, plans, specifications and estimates may be seen and proposal forms obtained at the office of the Commission in Albany, N. Y., and also at the offices of Division Engineer Spencer J. Stewart, Columbus Hall, Poughkeepsie, N. Y., for highways in the counties of Dutchess, Nassau, Orange, Putnam, Suffolk, Sullivan, Ulster and Westchester; at the office of Division Engineer Harry P. Willis, Humane Building, Albany, N. Y., for highways in the counties of Clinton, Columbia, Essex, Fulton, Montgomery, Rensselaer, Schenectady, Warren and Washington; also at the office of Division Engineer Guy H. Miller, Cleveland Building, Watertown, N. Y., for highways in the counties of Herkimer, Oneida and St. Lawrence; also at the office of Division Engineer Fred W. Sarr, South Clinton and West Jefferson streets, Syracuse, N. Y., for highways in the counties of Cayuga, Madison, Onondaga, Seneca and Wayne; also at the office of Division Engineer M. W. Wilbur, 423 Cutler Building, Rochester, N. Y., for highways in the counties of Cattaraugus, Erie, Genesee, Livingston, Monroe and Wyoming; and also at the office of Division Engineer Paul McLoud, [illegible] Building, Binghamton, N. Y., for highways in the counties of Broome, Chemung and Steuben.

The especial attention of bidders is called to "Information for Proposers" on pages 6 and 7 of the specifications.

Proposals for each highway must be presented in a separate sealed envelope endorsed on the outside with the name and number of the highway for which the proposal is made.

Each proposal must be accompanied by a New York draft or certified check payable to the order of the State Commission of Highways for an amount equal to at least five per cent. of the amount of the proposal which such draft or check accompanies. This draft or check will be held by the Commission until the contract and bond are duly executed.

The successful bidder will be required to give a bond for fifty per cent. of the amount of the contract; such bond to be executed by a Surety Company to be approved by the Commission, or a bond secured by the deposit of collateral securities to be approved by the Commission.

The right is reserved to reject any or all bids.

S. PERCY HOOKER, Chairman;
T. WARREN ALLEN,
ROBERT EARL,
Commissioners.

BRIDGE.

Rutherford, N. J.

Sealed proposals will be received by the Joint Committee of the Board of Chosen Freeholders of Bergen County, N. J., and the Board of Chosen Freeholders of Passaic County, N. J., at the office of the Clerk of the Board of Freeholders at the Court House, Hackensack, N. J., on Friday, April 28th, at 2.30 P. M., for constructing a Steel and Concrete Bridge across the Passaic River at the foot of Rutherford Avenue, Rutherford, N. J.

Plans and specifications can be examined and all necessary information obtained at the office of the Clerk of the Board of Freeholders of Bergen County, at the Court House, Hackensack, N. J., and at the office of the Passaic County Engineer, Court House, Paterson, N. J., any day except Saturday, between the hours of 10.00 A. M. and 4.00 P. M.

All bids must be presented by the bidders in person, or by their agents, to the Committee at the above stated time and place. No bids will be received previous to the hour designated in this notice and none will be received thereafter. All bids will be unsealed and the contents publicly announced at the above mentioned hour and place.

All bids must be accompanied by certified check for ten per cent. of the amount bid and be enclosed in a securely sealed wrapper, endorsed "Bid for Rutherford Avenue Bridge."

A bond will be required from the successful bidder for the faithful performance of the contract.

The Committee reserves the right to reject any or all bids.

JOHN H. KEHOE,
Chairman Passaic County Committee.
JOHN H. BURKE,
Chairman Bergen County Committee.

For Additional
PROPOSAL
Advertisements
Page 183

Situations Wanted

Bridge and Structural Engineers

STRUCTURAL Engineer, 39, desires position designing, checking, detailing or estimating. Address "F. B. 15," Engineering News, New York. 15-1t

BRIDGE and structural engineer, 35, ten years' wide experience designing, estimating, detailing and contracting for steel and reinforced concrete structures, wishes to change; best references. Address "C. C. 15," Engineering News, New York. 15-1t

EXPERT Designer steel and reinforced-concrete work; six years' experience; location, Chicago preferred. Address "B. C. 15," Engineering News, New York. 15-3t

STRUCTURAL Engineer, position with architect as engineer or assistant engineer. Address "E. B. 15," Engineering News, New York. 15-1t

Draftsmen

DRAFTSMAN, mechanical (29), technical graduate, designing and shop experience in power plants, boilers, engines, railroad cars, trucks, desires change. Address "E. C. 15," Engineering News, New York. 15-1t

DRAFTSMAN, six years' experience [illegible] work, elevating and conveying [illegible] mining machinery, desires position. Address "M. C. 15," Engineering News, New York. 15-2t

DRAFTSMAN, experienced [illegible] building, structural, mill, power and industrial plants, office or [illegible] Address "B. B. 15," Engineering News, New York. 15-1t

DRAFTSMAN, experienced detailing, estimating and designing, reinforced concrete, similarly in structural steel, [illegible] surveying, wishes to locate in New York or vicinity. Address "B. A. 12," Engineering News, New York. 15-1t

JUNIOR draftsman, technical student, desires position with contractor or structural concern; 3 years' experience in engineering office; neat, accurate tracer. Address "P. C. 15," Engineering News, New York. 15-1t

Superintendents, Misc., etc.

ENGINEER, 6 years' experience in municipal work, desires connection with parties contemplating work on municipal problems. Address "D. A. 15," Engineering News, New York. 15-1t

CONTRACTOR'S General Foreman, ten years' experience handling contract work, reservoir, dam, state road, reinforced-concrete buildings, arch and viaduct construction, open for engagement. J. T. DAVIS, Parkersburg, Pa. 15-1t

FOREMAN pipe fitter wants position; experience, power plants, railroad yards, car work; go anywhere. Address C. M. R., Room 1737, 30 Church St., New York. 15-1t

TECHNICAL Graduate, thoroughly experienced in earth and rock moving in all branches, desires change; New York or Philadelphia interview. Address "S. C. 15," Engineering News, New York 15-3t

COLLEGE MAN with 6 years' experience on very heavy construction work desires position with contractor or engineering co.; can make surveys, estimate drafting; can superintend work; also building construction experience; best references. Address "X. C. 15," Engineering News, New York. 15-1t

CIVIL ENGINEER student, expert stenographer and typewriter, at present estimator for sub-contractor; some drafting and surveying experience, desires position with builder or engineer; references. Address "Z. C. 15," Engineering News, New York. 15-1t

YOUNG MAN, technical graduate, '10, wants position; go anywhere if permanent. Address "L. C. 15," Engineering News, New York. 15-2t

AMBITIOUS Student C. E. (20), hustler, having training at C. E. with 2 years' experience at surveying (field and office), desires progressive position at anything. Address "W. C. 15," Engineering News, New York. 15-1t

Situations Open
(Or Vacant)

WANTED—One or two experienced structural draftsmen, capable of detailing and checking; state age, experience and salary desired and earliest date you can report for duty. Address "D. C. 15," Engineering News, New York. 15-3t

For Sale

FOR SALE.

45-ton **Marion Shovel**

No. 442, Style A—1¼-yd. Dipper; now working; delivery in 10 days; located 231st St. and Broadway, New York City. McDONALD & BARRY, 230th St. and Kingsbridge Ave., New York City.